

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 15:29:37 ON 19 FEB 2004

=> fil .bec

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.84

0.84

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS,
ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 15:32:15 ON 19 FEB 2004
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11 FILES IN THE FILE LIST

=> s glnap?

FILE 'MEDLINE'

L1 54 GLNAP?

FILE 'SCISEARCH'

L2 36 GLNAP?

FILE 'LIFESCI'

L3 50 GLNAP?

FILE 'BIOTECHDS'

L4 6 GLNAP?

FILE 'BIOSIS'

L5 57 GLNAP?

FILE 'EMBASE'

L6 46 GLNAP?

FILE 'HCAPLUS'

L7 65 GLNAP?

FILE 'NTIS'

L8 0 GLNAP?

FILE 'ESBIOBASE'

L9 23 GLNAP?

FILE 'BIOTECHNO'

L10 44 GLNAP?

FILE 'WPIDS'

L11 2 GLNAP?

TOTAL FOR ALL FILES

L12 383 GLNAP?

=> s acetyl phosphate or acetylphosphate or acetate

FILE 'MEDLINE'

38304 ACETYL

127642 PHOSPHATE

331 ACETYL PHOSPHATE

(ACETYL(W) PHOSPHATE)

71 ACETYLPHOSPHATE

88566 ACETATE

L13 88866 ACETYL PHOSPHATE OR ACETYLPHOSPHATE OR ACETATE

FILE 'SCISEARCH'

38376 ACETYL

```

133664 PHOSPHATE
  324 ACETYL PHOSPHATE
      (ACETYL(W) PHOSPHATE)
  34 ACETYLPHOSPHATE
87765 ACETATE
L14  88046 ACETYL PHOSPHATE OR ACETYLPHOSPHATE OR ACETATE

FILE 'LIFESCI'
  10931 "ACETYL"
  37510 "PHOSPHATE"
  174 ACETYL PHOSPHATE
      ("ACETYL" (W) "PHOSPHATE")
  23 ACETYLPHOSPHATE
23830 ACETATE
L15  23970 ACETYL PHOSPHATE OR ACETYLPHOSPHATE OR ACETATE

FILE 'BIOTECHDS'
  2792 ACETYL
  16765 PHOSPHATE
  49 ACETYL PHOSPHATE
      (ACETYL(W) PHOSPHATE)
  11 ACETYLPHOSPHATE
11452 ACETATE
L16  11477 ACETYL PHOSPHATE OR ACETYLPHOSPHATE OR ACETATE

FILE 'BIOSIS'
  85130 ACETYL
  191421 PHOSPHATE
  430 ACETYL PHOSPHATE
      (ACETYL(W) PHOSPHATE)
  82 ACETYLPHOSPHATE
115703 ACETATE
L17  116070 ACETYL PHOSPHATE OR ACETYLPHOSPHATE OR ACETATE

FILE 'EMBASE'
  39809 "ACETYL"
  157739 "PHOSPHATE"
  274 ACETYL PHOSPHATE
      ("ACETYL" (W) "PHOSPHATE")
  41 ACETYLPHOSPHATE
103030 ACETATE
L18  103265 ACETYL PHOSPHATE OR ACETYLPHOSPHATE OR ACETATE

FILE 'HCAPLUS'
  141028 ACETYL
  496799 PHOSPHATE
  934 ACETYL PHOSPHATE
      (ACETYL(W) PHOSPHATE)
  239 ACETYLPHOSPHATE
465342 ACETATE
L19  466109 ACETYL PHOSPHATE OR ACETYLPHOSPHATE OR ACETATE

FILE 'NTIS'
  727 ACETYL
  6316 PHOSPHATE
  1 ACETYL PHOSPHATE
      (ACETYL(W) PHOSPHATE)
  1 ACETYLPHOSPHATE
3054 ACETATE
L20  3054 ACETYL PHOSPHATE OR ACETYLPHOSPHATE OR ACETATE

FILE 'ESBIOBASE'
  12179 ACETYL
  38420 PHOSPHATE

```

145 ACETYL PHOSPHATE
(ACETYL(W) PHOSPHATE)
17 ACETYLPHOSPHATE
23735 ACETATE
L21 23865 ACETYL PHOSPHATE OR ACETYLPHOSPHATE OR ACETATE

FILE 'BIOTECHNO'
12360 ACETYL
51707 PHOSPHATE
190 ACETYL PHOSPHATE
(ACETYL(W) PHOSPHATE)
29 ACETYLPHOSPHATE
29320 ACETATE
L22 29484 ACETYL PHOSPHATE OR ACETYLPHOSPHATE OR ACETATE

FILE 'WPIDS'
25180 ACETYL
84162 PHOSPHATE
33 ACETYL PHOSPHATE
(ACETYL(W) PHOSPHATE)
18 ACETYLPHOSPHATE
114024 ACETATE
L23 114051 ACETYL PHOSPHATE OR ACETYLPHOSPHATE OR ACETATE

TOTAL FOR ALL FILES
L24 1068257 ACETYL PHOSPHATE OR ACETYLPHOSPHATE OR ACETATE

=> s promoter?
FILE 'MEDLINE'
L25 104960 PROMOTER?

FILE 'SCISEARCH'
L26 109056 PROMOTER?

FILE 'LIFESCI'
L27 61248 PROMOTER?

FILE 'BIOTECHDS'
L28 29686 PROMOTER?

FILE 'BIOSIS'
L29 118319 PROMOTER?

FILE 'EMBASE'
L30 88207 PROMOTER?

FILE 'HCAPLUS'
L31 163196 PROMOTER?

FILE 'NTIS'
L32 1556 PROMOTER?

FILE 'ESBIOBASE'
L33 57674 PROMOTER?

FILE 'BIOTECHNO'
L34 76660 PROMOTER?

FILE 'WPIDS'
L35 31833 PROMOTER?

TOTAL FOR ALL FILES
L36 842395 PROMOTER?

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=> s l12 and (l24 or l36(8a)(induc? or regulat? or activat? or modulat?))
FILE 'MEDLINE'
    1467371 INDUC?
    655894 REGULAT?
    645922 ACTIVAT?
    188652 MODULAT?
    28368 L25(8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)
L37      32 L1 AND (L13 OR L25(8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT
        ?))

FILE 'SCISEARCH'
    1356772 INDUC?
    570603 REGULAT?
    708279 ACTIVAT?
    271427 MODULAT?
    29309 L26(8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)
L38      25 L2 AND (L14 OR L26(8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT
        ?))

FILE 'LIFESCI'
    380694 INDUC?
    228629 REGULAT?
    206735 ACTIVAT?
    69294 MODULAT?
    20277 L27(8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)
L39      31 L3 AND (L15 OR L27(8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT
        ?))

FILE 'BIOTECHDS'
    37497 INDUC?
    23837 REGULAT?
    22547 ACTIVAT?
    11056 MODULAT?
    5811 L28(8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)
L40       5 L4 AND (L16 OR L28(8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT
        ?))

FILE 'BIOSIS'
    1374962 INDUC?
    724837 REGULAT?
    668480 ACTIVAT?
    224051 MODULAT?
    33393 L29(8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)
L41      35 L5 AND (L17 OR L29(8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT
        ?))

FILE 'EMBASE'
    1119846 INDUC?
    544971 REGULAT?
    566933 ACTIVAT?
    181251 MODULAT?
    26999 L30(8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)
L42      30 L6 AND (L18 OR L30(8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT
        ?))

FILE 'HCAPLUS'
    1815897 INDUC?
    807692 REGULAT?
    1099800 ACTIVAT?
    280272 MODULAT?
    45054 L31(8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)
L43      47 L7 AND (L19 OR L31(8A) (INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT
        ?))

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FILE 'NTIS'

- 67562 INDUC?
- 81873 REGULAT?
- 27784 ACTIVAT?
- 21158 MODULAT?
- 260 L32(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

L44 0 L8 AND (L20 OR L32(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?))

FILE 'ESBIOBASE'

- 434023 INDUC?
- 321283 REGULAT?
- 260977 ACTIVAT?
- 90535 MODULAT?
- 19783 L33(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

L45 17 L9 AND (L21 OR L33(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?))

FILE 'BIOTECHNO'

- 335433 INDUC?
- 271996 REGULAT?
- 233622 ACTIVAT?
- 58358 MODULAT?
- 24255 L34(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

L46 28 L10 AND (L22 OR L34(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?))

FILE 'WPIDS'

- 232619 INDUC?
- 350311 REGULAT?
- 232831 ACTIVAT?
- 148164 MODULAT?
- 4534 L35(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

L47 2 L11 AND (L23 OR L35(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?))

TOTAL FOR ALL FILES

L48 252 L12 AND (L24 OR L36(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?))

=> s l24(8a)l36(8a)(induc? or regulat? or activat? or modulat?)

FILE 'MEDLINE'

- 1467371 INDUC?
- 655894 REGULAT?
- 645922 ACTIVAT?
- 188652 MODULAT?

L49 581 L13(8A)L25(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

FILE 'SCISEARCH'

- 1356772 INDUC?
- 570603 REGULAT?
- 708279 ACTIVAT?
- 271427 MODULAT?

L50 388 L14(8A)L26(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

FILE 'LIFESCI'

- 380694 INDUC?
- 228629 REGULAT?
- 206735 ACTIVAT?
- 69294 MODULAT?

L51 244 L15(8A)L27(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

FILE 'BIOTECHDS'

- 37497 INDUC?

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        23837 REGULAT?
        22547 ACTIVAT?
        11056 MODULAT?
L52      8 L16(8A)L28(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

FILE 'BIOSIS'
        1374962 INDUC?
        724837 REGULAT?
        668480 ACTIVAT?
        224051 MODULAT?
L53      648 L17(8A)L29(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

FILE 'EMBASE'
        1119846 INDUC?
        544971 REGULAT?
        566933 ACTIVAT?
        181251 MODULAT?
L54      590 L18(8A)L30(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

FILE 'HCAPLUS'
        1815897 INDUC?
        807692 REGULAT?
        1099800 ACTIVAT?
        280272 MODULAT?
L55      604 L19(8A)L31(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

FILE 'NTIS'
        67562 INDUC?
        81873 REGULAT?
        27784 ACTIVAT?
        21158 MODULAT?
L56      3 L20(8A)L32(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

FILE 'ESBIOBASE'
        434023 INDUC?
        321283 REGULAT?
        260977 ACTIVAT?
        90535 MODULAT?
L57      201 L21(8A)L33(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

FILE 'BIOTECHNO'
        335433 INDUC?
        271996 REGULAT?
        233622 ACTIVAT?
        58358 MODULAT?
L58      351 L22(8A)L34(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

FILE 'WPIDS'
        232619 INDUC?
        350311 REGULAT?
        232831 ACTIVAT?
        148164 MODULAT?
L59      7 L23(8A)L35(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

TOTAL FOR ALL FILES
L60      3625 L24(8A) L36(8A)(INDUC? OR REGULAT? OR ACTIVAT? OR MODULAT?)

=> s l60 not ((phorbol or tetradecanoylphorbol)(2a)acetate)
FILE 'MEDLINE'
        31629 PHORBOL
        27213 TETRADECANOYLPHORBOL
        88566 ACETATE
        31003 (PHORBOL OR TETRADECANOYLPHORBOL)(2A)ACETATE
L61      35 L49 NOT ((PHORBOL OR TETRADECANOYLPHORBOL)(2A)ACETATE)

```

FILE 'SCISEARCH'

- 30256 PHORBOL
- 4623 TETRADECANOYLPHORBOL
- 87765 ACETATE
- 11461 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE

L62 87 L50 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE)

FILE 'LIFESCI'

- 11578 PHORBOL
- 2340 TETRADECANOYLPHORBOL
- 23830 ACETATE
- 5681 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE

L63 49 L51 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE)

FILE 'BIOTECHDS'

- 297 PHORBOL
- 49 TETRADECANOYLPHORBOL
- 11452 ACETATE
- 160 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE

L64 3 L52 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE)

FILE 'BIOSIS'

- 38371 PHORBOL
- 9924 TETRADECANOYLPHORBOL
- 115703 ACETATE
- 21641 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE

L65 98 L53 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE)

FILE 'EMBASE'

- 37666 PHORBOL
- 6108 TETRADECANOYLPHORBOL
- 103030 ACETATE
- 25514 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE

L66 45 L54 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE)

FILE 'HCAPLUS'

- 31626 PHORBOL
- 6472 TETRADECANOYLPHORBOL
- 465342 ACETATE
- 16118 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE

L67 139 L55 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE)

FILE 'NTIS'

- 194 PHORBOL
- 29 TETRADECANOYLPHORBOL
- 3054 ACETATE
- 80 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE

L68 0 L56 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE)

FILE 'ESBIOBASE'

- 11555 PHORBOL
- 2090 TETRADECANOYLPHORBOL
- 23735 ACETATE
- 4814 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE

L69 57 L57 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE)

FILE 'BIOTECHNO'

- 18589 PHORBOL
- 3245 TETRADECANOYLPHORBOL
- 29320 ACETATE
- 12354 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE

L70 37 L58 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE)

FILE 'WPIDS'

335 PHORBOL
46 TETRADECANOYLPORBOL
114024 ACETATE
158 (PHORBOL OR TETRADECANOYLPORBOL) (2A) ACETATE
L71 4 L59 NOT ((PHORBOL OR TETRADECANOYLPORBOL) (2A) ACETATE)

TOTAL FOR ALL FILES

L72 554 L60 NOT ((PHORBOL OR TETRADECANOYLPORBOL) (2A) ACETATE)

=> s isopren? or lycopene# or caroten? or astaxanthin# or phytoene# or
isopentenyl(w)diphosphate or ipp

FILE 'MEDLINE'

9692 ISOPREN?
1238 LYCOPENE#
13199 CAROTEN?
286 ASTAXANTHIN#
323 PHYTOENE#
742 ISOPENTENYL
40154 DIPHOSPHATE
257 ISOPENTENYL(W) DIPHOSPHATE
402 IPP
L73 23322 ISOPREN? OR LYCOPENE# OR CAROTEN? OR ASTAXANTHIN# OR PHYTOENE#
OR ISOPENTENYL(W) DIPHOSPHATE OR IPP

FILE 'SCISEARCH'

11397 ISOPREN?
1709 LYCOPENE#
19382 CAROTEN?
900 ASTAXANTHIN#
522 PHYTOENE#
1085 ISOPENTENYL
11198 DIPHOSPHATE
461 ISOPENTENYL(W) DIPHOSPHATE
1276 IPP
L74 32386 ISOPREN? OR LYCOPENE# OR CAROTEN? OR ASTAXANTHIN# OR PHYTOENE#
OR ISOPENTENYL(W) DIPHOSPHATE OR IPP

FILE 'LIFESCI'

1999 ISOPREN?
210 LYCOPENE#
3377 CAROTEN?
302 ASTAXANTHIN#
214 PHYTOENE#
354 ISOPENTENYL
3061 DIPHOSPHATE
137 ISOPENTENYL(W) DIPHOSPHATE
135 IPP
L75 5615 ISOPREN? OR LYCOPENE# OR CAROTEN? OR ASTAXANTHIN# OR PHYTOENE#
OR ISOPENTENYL(W) DIPHOSPHATE OR IPP

FILE 'BIOTECHDS'

278 ISOPREN?
115 LYCOPENE#
963 CAROTEN?
256 ASTAXANTHIN#
104 PHYTOENE#
163 ISOPENTENYL
628 DIPHOSPHATE
55 ISOPENTENYL(W) DIPHOSPHATE
59 IPP
L76 1298 ISOPREN? OR LYCOPENE# OR CAROTEN? OR ASTAXANTHIN# OR PHYTOENE#
OR ISOPENTENYL(W) DIPHOSPHATE OR IPP

FILE 'BIOSIS'

13333 ISOPREN?
2179 LYCOPENE#
24451 CAROTEN?
1221 ASTAXANTHIN#
670 PHYTOENE#
1529 ISOPENTENYL
11874 DIPHOSPHATE
354 ISOPENTENYL(W) DIPHOSPHATE
483 IPP
L77 38918 ISOPREN? OR LYCOPENE# OR CAROTEN? OR ASTAXANTHIN# OR PHYTOENE#
OR ISOPENTENYL(W) DIPHOSPHATE OR IPP

FILE 'EMBASE'

42482 ISOPREN?
1375 LYCOPENE#
11861 CAROTEN?
374 ASTAXANTHIN#
202 PHYTOENE#
540 ISOPENTENYL
37315 DIPHOSPHATE
269 ISOPENTENYL(W) DIPHOSPHATE
376 IPP
L78 54973 ISOPREN? OR LYCOPENE# OR CAROTEN? OR ASTAXANTHIN# OR PHYTOENE#
OR ISOPENTENYL(W) DIPHOSPHATE OR IPP

FILE 'HCAPLUS'

53819 ISOPREN?
3777 LYCOPENE#
45680 CAROTEN?
2081 ASTAXANTHIN#
1140 PHYTOENE#
2230 ISOPENTENYL
30974 DIPHOSPHATE
504 ISOPENTENYL(W) DIPHOSPHATE
1540 IPP
L79 101863 ISOPREN? OR LYCOPENE# OR CAROTEN? OR ASTAXANTHIN# OR PHYTOENE#
OR ISOPENTENYL(W) DIPHOSPHATE OR IPP

FILE 'NTIS'

322 ISOPREN?
18 LYCOPENE#
285 CAROTEN?
16 ASTAXANTHIN#
1 PHYTOENE#
5 ISOPENTENYL
191 DIPHOSPHATE
0 ISOPENTENYL(W) DIPHOSPHATE
207 IPP
L80 819 ISOPREN? OR LYCOPENE# OR CAROTEN? OR ASTAXANTHIN# OR PHYTOENE#
OR ISOPENTENYL(W) DIPHOSPHATE OR IPP

FILE 'ESBIOBASE'

3194 ISOPREN?
840 LYCOPENE#
5766 CAROTEN?
359 ASTAXANTHIN#
204 PHYTOENE#
479 ISOPENTENYL
3547 DIPHOSPHATE
227 ISOPENTENYL(W) DIPHOSPHATE
200 IPP
L81 9321 ISOPREN? OR LYCOPENE# OR CAROTEN? OR ASTAXANTHIN# OR PHYTOENE#
OR ISOPENTENYL(W) DIPHOSPHATE OR IPP

FILE 'BIOTECHNO'

```
    4700 ISOPREN?
    317 LYCOPENE#
    2765 CAROTEN?
    242 ASTAXANTHIN#
    212 PHYTOENE#
    442 ISOPENTENYL
    13015 DIPHOSPHATE
    246 ISOPENTENYL(W) DIPHOSPHATE
    156 IPP
L82    7724 ISOPREN? OR LYCOPENE# OR CAROTEN? OR ASTAXANTHIN# OR PHYTOENE#
        OR ISOPENTENYL(W) DIPHOSPHATE OR IPP
```

FILE 'WPIDS'

```
    14194 ISOPREN?
    413 LYCOPENE#
    3376 CAROTEN?
    373 ASTAXANTHIN#
    94 PHYTOENE#
    141 ISOPENTENYL
    1769 DIPHOSPHATE
    32 ISOPENTENYL(W) DIPHOSPHATE
    143 IPP
L83    17993 ISOPREN? OR LYCOPENE# OR CAROTEN? OR ASTAXANTHIN# OR PHYTOENE#
        OR ISOPENTENYL(W) DIPHOSPHATE OR IPP
```

TOTAL FOR ALL FILES

```
L84    294232 ISOPREN? OR LYCOPENE# OR CAROTEN? OR ASTAXANTHIN# OR PHYTOENE#
        OR ISOPENTENYL(W) DIPHOSPHATE OR IPP
```

=> s l84 and (l24 not ((phorbol or tetradecanoylphorbol) (2a)acetate))

FILE 'MEDLINE'

```
    31629 PHORBOL
    27213 TETRADECANOYLPORBOL
    88566 ACETATE
    31003 (PHORBOL OR TETRADECANOYLPORBOL) (2A) ACETATE
L85    381 L73 AND (L13 NOT ((PHORBOL OR TETRADECANOYLPORBOL) (2A) ACETATE))
```

FILE 'SCISEARCH'

```
    30256 PHORBOL
    4623 TETRADECANOYLPORBOL
    87765 ACETATE
    11461 (PHORBOL OR TETRADECANOYLPORBOL) (2A) ACETATE
L86    633 L74 AND (L14 NOT ((PHORBOL OR TETRADECANOYLPORBOL) (2A) ACETATE))
```

FILE 'LIFESCI'

```
    11578 PHORBOL
    2340 TETRADECANOYLPORBOL
    23830 ACETATE
    5681 (PHORBOL OR TETRADECANOYLPORBOL) (2A) ACETATE
L87    127 L75 AND (L15 NOT ((PHORBOL OR TETRADECANOYLPORBOL) (2A) ACETATE))
```

FILE 'BIOTECHDS'

```
    297 PHORBOL
    49 TETRADECANOYLPORBOL
    11452 ACETATE
    160 (PHORBOL OR TETRADECANOYLPORBOL) (2A) ACETATE
L88    83 L76 AND (L16 NOT ((PHORBOL OR TETRADECANOYLPORBOL) (2A) ACETATE))
```

FILE 'BIOSIS'

```
    38371 PHORBOL
    9924 TETRADECANOYLPORBOL
    115703 ACETATE
```

21641 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE
L89 730 L77 AND (L17 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE))

FILE 'EMBASE'

37666 PHORBOL
6108 TETRADECANOYLPHORBOL
103030 ACETATE
25514 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE
L90 812 L78 AND (L18 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE))

FILE 'HCAPLUS'

31626 PHORBOL
6472 TETRADECANOYLPHORBOL
465342 ACETATE
16118 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE
L91 4398 L79 AND (L19 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE))

FILE 'NTIS'

194 PHORBOL
29 TETRADECANOYLPHORBOL
3054 ACETATE
80 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE
L92 8 L80 AND (L20 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE))

FILE 'ESBIOBASE'

11555 PHORBOL
2090 TETRADECANOYLPHORBOL
23735 ACETATE
4814 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE
L93 221 L81 AND (L21 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE))

FILE 'BIOTECHNO'

18589 PHORBOL
3245 TETRADECANOYLPHORBOL
29320 ACETATE
12354 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE
L94 183 L82 AND (L22 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE))

FILE 'WPIDS'

335 PHORBOL
46 TETRADECANOYLPHORBOL
114024 ACETATE
158 (PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE
L95 1743 L83 AND (L23 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE))

TOTAL FOR ALL FILES

L96 9319 L84 AND (L24 NOT ((PHORBOL OR TETRADECANOYLPHORBOL) (2A) ACETATE))
)

=> s 184(5a)(synthes? or production# or mak?)

FILE 'MEDLINE'

444699 SYNTHES?
320157 PRODUCTION#
261923 MAK?
L97 977 L73(5A) (SYNTHES? OR PRODUCTION# OR MAK?)

FILE 'SCISEARCH'

775604 SYNTHES?
506491 PRODUCTION#
288197 MAK?
L98 1884 L74(5A) (SYNTHES? OR PRODUCTION# OR MAK?)

FILE 'LIFESCI'

130707 SYNTHES?

```

        168183 PRODUCTION#
        47447 MAK?
L99      633 L75(5A) (SYNTHES? OR PRODUCTION# OR MAK?)

FILE 'BIOTECHDS'
        27951 SYNTHES?
        113369 PRODUCTION#
        9680 MAK?
L100     546 L76(5A) (SYNTHES? OR PRODUCTION# OR MAK?)

FILE 'BIOSIS'
        603479 SYNTHES?
        566838 PRODUCTION#
        172506 MAK?
L101     2359 L77(5A) (SYNTHES? OR PRODUCTION# OR MAK?)

FILE 'EMBASE'
        544152 SYNTHES?
        330306 PRODUCTION#
        226968 MAK?
L102     888 L78(5A) (SYNTHES? OR PRODUCTION# OR MAK?)

FILE 'HCAPLUS'
        1347627 SYNTHES?
        517420 PRODUCTION#
        795340 PRODN
        1102829 PRODUCTION#
                (PRODUCTION# OR PRODN)
        533706 MAK?
L103     5459 L79(5A) (SYNTHES? OR PRODUCTION# OR MAK?)

FILE 'NTIS'
        41449 SYNTHES?
        130680 PRODUCTION#
        116551 MAK?
L104     24 L80(5A) (SYNTHES? OR PRODUCTION# OR MAK?)

FILE 'ESBIOBASE'
        160533 SYNTHES?
        164307 PRODUCTION#
        56352 MAK?
L105     697 L81(5A) (SYNTHES? OR PRODUCTION# OR MAK?)

FILE 'BIOTECHNO'
        170699 SYNTHES?
        149568 PRODUCTION#
        34919 MAK?
L106     584 L82(5A) (SYNTHES? OR PRODUCTION# OR MAK?)

FILE 'WPIDS'
        113166 SYNTHES?
        327240 PRODUCTION#
        473866 PRODN
        782607 PRODUCTION#
                (PRODUCTION# OR PRODN)
        589353 MAK?
L107     1104 L83(5A) (SYNTHES? OR PRODUCTION# OR MAK?)

TOTAL FOR ALL FILES
L108     15155 L84(5A) (SYNTHES? OR PRODUCTION# OR MAK?)

=> s 196 and 1108
FILE 'MEDLINE'
L109     43 L85 AND L97

```


FILE 'SCISEARCH'
L110 60 L86 AND L98

FILE 'LIFESCI'
L111 24 L87 AND L99

FILE 'BIOTECHDS'
L112 22 L88 AND L100

FILE 'BIOSIS'
L113 82 L89 AND L101

FILE 'EMBASE'
L114 41 L90 AND L102

FILE 'HCAPLUS'
L115 308 L91 AND L103

FILE 'NTIS'
L116 2 L92 AND L104

FILE 'ESBIOBASE'
L117 34 L93 AND L105

FILE 'BIOTECHNO'
L118 26 L94 AND L106

FILE 'WPIDS'
L119 52 L95 AND L107

TOTAL FOR ALL FILES
L120 694 L96 AND L108

=> s (l48 or l72 or l120) not 2001-2004/py
FILE 'MEDLINE'
1649476 2001-2004/PY
L121 91 (L37 OR L61 OR L109) NOT 2001-2004/PY

FILE 'SCISEARCH'
3072444 2001-2004/PY
L122 136 (L38 OR L62 OR L110) NOT 2001-2004/PY

FILE 'LIFESCI'
299805 2001-2004/PY
L123 89 (L39 OR L63 OR L111) NOT 2001-2004/PY

FILE 'BIOTECHDS'
63959 2001-2004/PY
L124 17 (L40 OR L64 OR L112) NOT 2001-2004/PY

FILE 'BIOSIS'
1625817 2001-2004/PY
L125 184 (L41 OR L65 OR L113) NOT 2001-2004/PY

FILE 'EMBASE'
1377246 2001-2004/PY
L126 102 (L42 OR L66 OR L114) NOT 2001-2004/PY

FILE 'HCAPLUS'
3121751 2001-2004/PY
L127 413 (L43 OR L67 OR L115) NOT 2001-2004/PY

FILE 'NTIS'

43998 2001-2004/PY
L128 1 (L44 OR L68 OR L116) NOT 2001-2004/PY

FILE 'ESBIOBASE'

880860 2001-2004/PY
L129 78 (L45 OR L69 OR L117) NOT 2001-2004/PY

FILE 'BIOTECHNO'

368875 2001-2004/PY
L130 75 (L46 OR L70 OR L118) NOT 2001-2004/PY

FILE 'WPIDS'

2955063 2001-2004/PY
L131 29 (L47 OR L71 OR L119) NOT 2001-2004/PY

TOTAL FOR ALL FILES

L132 1215 (L48 OR L72 OR L120) NOT 2001-2004/PY

=> dup rem l132

PROCESSING IS APPROXIMATELY 84% COMPLETE FOR L132

PROCESSING COMPLETED FOR L132

L133 558 DUP REM L132 (657 DUPLICATES REMOVED)

=> d tot

L133 ANSWER 1 OF 558 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI Manufacture of actinol useful for **synthesizing**
carotenoids by selective asymmetric reduction of levodione with
new Cellulomonas, Corynebacterium, Planococcus and Arthrobacter
microorganisms;
production of actinol by reacting Cellulomonas species,
Corynebacterium aquaticum, Planococcus akeanokoites or Arthrobacter
sulfureus with levodione
AU Shimizu S; Wada M
AN 2000-06238 BIOTECHDS
PI EP 982406 1 Mar 2000

L133 ANSWER 2 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI The use of cholesterol-synthesis inhibitors for the reduction of the level
of cholesterol in poultry eggs
SO Eur. Pat. Appl., 19 pp.
CODEN: EPXXDW
IN Kramer, Klaus; Baldenius, Kai-Uwe; Hoppe, Peter Paul
AN 2000:98040 HCAPLUS
DN 132:136828

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 978236	A1	20000209	EP 1999-115698	19990809
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
DE 19835850	A1	20000210	DE 1998-19835850	19980807
US 6166067	A	20001226	US 1999-362062	19990728
JP 2000060435	A2	20000229	JP 1999-221602	19990804
CN 1258457	A	20000705	CN 1999-119696	19990807

L133 ANSWER 3 OF 558 MEDLINE on STN DUPLICATE 1
TI Superoxide production and reactive oxygen species signaling by endothelial
nitric-oxide synthase.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2000 Jun 2) 275 (22) 16899-903.
Journal code: 2985121R. ISSN: 0021-9258.
AU Wang W; Wang S; Yan L; Madara P; Del Pilar Cintron A; Wesley R A; Danner R
L
AN 2000287564 MEDLINE

L133 ANSWER 4 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 2
 TI Raf induces NF-kappa B by membrane shuttle kinase MEKK1, a signaling
 pathway critical for transformation
 SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF
 AMERICA, (25 APR 2000) Vol. 97, No. 9, pp. 4615-4620.
 Publisher: NATL ACAD SCIENCES, 2101 CONSTITUTION AVE NW, WASHINGTON, DC
 20418.
 ISSN: 0027-8424.
 AU Baumann B; Weber C K; Troppmair J; Whiteside S; Israel A; Rapp U R; Wirth
 T (Reprint)
 AN 2000:340920 SCISEARCH

L133 ANSWER 5 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 3
 TI Effect of the solvent environment on the spectroscopic properties and
 dynamics of the lowest excited states of **carotenoids**
 SO JOURNAL OF PHYSICAL CHEMISTRY B, (11 MAY 2000) Vol. 104, No. 18, pp.
 4569-4577.
 Publisher: AMER CHEMICAL SOC, 1155 16TH ST, NW, WASHINGTON, DC 20036.
 ISSN: 1089-5647.
 AU Frank H A (Reprint); Bautista J A; Josue J; Pendon Z; Hiller R G; Sharples
 F P; Gosztola D; Wasielewski M R
 AN 2000:376281 SCISEARCH

L133 ANSWER 6 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Design and Synthesis of a Transferable Farnesyl Pyrophosphate Analogue to
 Ras by Protein Farnesyltransferase
 SO Journal of Organic Chemistry (2000), 65(10), 3027-3033
 CODEN: JOCEAH; ISSN: 0022-3263
 AU Chehade, Kareem A. H.; Andres, Douglas A.; Morimoto, Hiromi; Spielmann, H.
 Peter
 AN 2000:239015 HCAPLUS
 DN 133:17642

L133 ANSWER 7 OF 558 MEDLINE on STN DUPLICATE 4
 TI Simultaneous binding of two DNA duplexes to the NtrC-enhancer complex
 studied by two-color fluorescence cross-correlation spectroscopy.
 SO BIOCHEMISTRY, (2000 Mar 7) 39 (9) 2131-9.
 Journal code: 0370623. ISSN: 0006-2960.
 AU Rippe K
 AN 2000160489 MEDLINE

L133 ANSWER 8 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Matrix metalloproteinase 9 promoter activity is induced coincident with
 invasion during tumor progression
 SO American Journal of Pathology (2000), 157(6), 1777-1783
 CODEN: AJPA44; ISSN: 0002-9440
 AU Kupferman, Michael E.; Fini, M. Elizabeth; Muller, William J.; Weber,
 Randal; Cheng, Yi; Muschel, Ruth J.
 AN 2001:14676 HCAPLUS
 DN 134:324366

L133 ANSWER 9 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Structure-Activity Relationships of (1'S)-1'-Acetoxychavicol Acetate, a
 Major Constituent of a Southeast Asian Condiment Plant Languas galanga, on
 the Inhibition of Tumor-Promoter-Induced Epstein-Barr Virus Activation
 SO Journal of Agricultural and Food Chemistry (2000), 48(5), 1518-1523
 CODEN: JAFCAU; ISSN: 0021-8561
 AU Murakami, Akira; Toyota, Kazuo; Ohura, Shin; Koshimizu, Koichi; Ohigashi,
 Hajime
 AN 2000:238648 HCAPLUS
 DN 133:37710

L133 ANSWER 10 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Mucosa-specific targets for regulation of IFN- γ expression: lamina

propria T cells use different cis-elements than peripheral blood T cells to regulate transactivation of IFN- γ expression

SO Journal of Immunology (2000), 164(3), 1399-1407
CODEN: JOIMA3; ISSN: 0022-1767

AU Gonsky, Rivkah; Deem, Richard L.; Bream, Jay H.; Lee, Doo Han; Young, Howard A.; Targan, Stephan R.

AN 2000:82590 HCAPLUS

DN 132:221193

L133 ANSWER 11 OF 558 MEDLINE on STN DUPLICATE 5

TI Changes in **isoprenoid** lipid **synthesis** by gemfibrozil and clofibric acid in rat hepatocytes.

SO BIOCHEMICAL PHARMACOLOGY, (2000 May 15) 59 (10) 1203-10.
Journal code: 0101032. ISSN: 0006-2952.

AU Hashimoto F; Taira S; Hayashi H

AN 2000202023 MEDLINE

L133 ANSWER 12 OF 558 MEDLINE on STN DUPLICATE 6

TI Biosynthesis of **carotenoids** in plastids of plants.

SO BIOCHEMISTRY, (2000 Oct) 65 (10) 1113-28. Ref: 82
Journal code: 0376536. ISSN: 0006-2979.

AU Ladygin V G

AN 2001090049 MEDLINE

L133 ANSWER 13 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Forskolin studies

SO Tetrahedron (2000), 56(8), 1081-1095
CODEN: TETRAB; ISSN: 0040-4020

AU Behnke, Dirk; Hennig, Lothar; Findeisen, Matthias; Welzel, Peter; Muller, Dietrich; Thormann, Michael; Hofmann, Hans-Jorg

AN 2000:147117 HCAPLUS

DN 132:279368

L133 ANSWER 14 OF 558 MEDLINE on STN DUPLICATE 7

TI Activation of osteocalcin transcription involves interaction of protein kinase A- and protein kinase C-dependent pathways.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2000 Jan 14) 275 (2) 999-1006.
Journal code: 2985121R. ISSN: 0021-9258.

AU Boguslawski G; Hale L V; Yu X P; Miles R R; Onyia J E; Santerre R F; Chandrasekhar S

AN 2000092866 MEDLINE

L133 ANSWER 15 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Allele-specific regulation of matrix metalloproteinase-12 gene activity is associated with coronary artery luminal dimensions in diabetic patients with manifest coronary artery disease

SO Circulation Research (2000), 86(9), 998-1003
CODEN: CIRUAL; ISSN: 0009-7330

AU Jormsjo, Sofia; Ye, Shu; Moritz, Joseffa; Walter, Dirk H.; Dimmeler, Stefanie; Zeiher, Andreas M.; Henney, Adriano; Hamsten, Anders; Eriksson, Per

AN 2000:346530 HCAPLUS

DN 133:87647

L133 ANSWER 16 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 8

TI Biosynthesis of **carotenoids** in the chloroplasts of algae and higher plants

SO RUSSIAN JOURNAL OF PLANT PHYSIOLOGY, (NOV-DEC 2000) Vol. 47, No. 6, pp. 796-814.
Publisher: MAIK NAUKA/INTERPERIODICA, C/O KLUWER ACADEMIC-PLENUM PUBLISHERS, 233 SPRING ST, NEW YORK, NY 10013-1578.
ISSN: 1021-4437.

AU Ladygin V G (Reprint)

AN 2000:904268 SCISEARCH

L133 ANSWER 17 OF 558 MEDLINE on STN DUPLICATE 9
 TI Metabolism of farnesyl diphosphate in tobacco BY-2 cells treated with
 squalenstatin.
 SO BIOCHEMICAL SOCIETY TRANSACTIONS, (2000 Dec) 28 (6) 794-6.
 Journal code: 7506897. ISSN: 0300-5127.
 AU Hartmann M A; Wentzinger L; Hemmerlin A; Bach T J
 AN 2001301221 MEDLINE

L133 ANSWER 18 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI Molecular regulation of granulocyte macrophage colony-stimulating factor
 in human lung epithelial cells by interleukin (IL)-1beta, IL-4, and IL-13
 involves both transcriptional and post-transcriptional mechanisms.
 SO American Journal of Respiratory Cell and Molecular Biology, (May, 2000)
 Vol. 22, No. 5, pp. 582-589. print.
 CODEN: AJRBEL. ISSN: 1044-1549.
 AU Bergmann, Martin; Barnes, Peter J.; Newton, Robert [Reprint author]
 AN 2000:321497 BIOSIS

L133 ANSWER 19 OF 558 MEDLINE on STN DUPLICATE 10
 TI Improving **lycopene production** in Escherichia coli by
 engineering metabolic control.
 SO NATURE BIOTECHNOLOGY, (2000 May) 18 (5) 533-7.
 Journal code: 9604648. ISSN: 1087-0156.
 AU Farmer W R; Liao J C
 AN 2000264176 MEDLINE

L133 ANSWER 20 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Ethylene and glycosidase promotion in GA3- and IAA-treated tomato fruit
 (Lycopersicon esculentum Mill.)
 SO Journal of Plant Growth Regulation (2000), 19(3), 359-368
 CODEN: JPGRDI; ISSN: 0721-7595
 AU Sozzi, G. O.; Trincherro, G. D.; Fraschina, A. A.
 AN 2001:286480 HCAPLUS
 DN 135:43583

L133 ANSWER 21 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
 11
 TI Emission of volatiles from brown boronia flowers: Some comparative
 observations
 SO ANNALS OF BOTANY, (AUG 2000) Vol. 86, No. 2, pp. 347-354.
 Publisher: ACADEMIC PRESS LTD, 24-28 OVAL RD, LONDON NW1 7DX, ENGLAND.
 ISSN: 0305-7364.
 AU MacTavish H S (Reprint); Davies N W; Menary R C
 AN 2000:596461 SCISEARCH

L133 ANSWER 22 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
 12
 TI The effect of PKC activation on the survival of rat retinal ganglion cells
 in culture
 SO BRAIN RESEARCH, (24 JAN 2000) Vol. 853, No. 2, pp. 338-343.
 Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM,
 NETHERLANDS.
 ISSN: 0006-8993.
 AU dosSantos A A; deAraujo E G (Reprint)
 AN 2000:124969 SCISEARCH

L133 ANSWER 23 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI The transcriptional mechanisms of retinoid-induced tissue factor
 suppression in leukemic cell lines.
 SO Blood, (November 16, 2000) Vol. 96, No. 11 Part 1, pp. 257a. print.
 Meeting Info.: 42nd Annual Meeting of the American Society of Hematology.
 San Francisco, California, USA. December 01-05, 2000. American Society of
 Hematology.

CODEN: BLOOAW. ISSN: 0006-4971.

AU Tenno, Taavo [Reprint author]; Oberg, Fredrik; Nilsson, Kenneth; Siegbahn, Agneta [Reprint author]
AN 2001:311579 BIOSIS

L133 ANSWER 24 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI PKC and ERK1/2 regulate amylase promoter activity during differentiation of a salivary gland cell line

SO Journal of Cellular Physiology (2000), 185(2), 215-225
CODEN: JCLLAX; ISSN: 0021-9541

AU Jung, Dale W.; Hecht, Dalit; Ho, Susan W.; O'Connell, Brian C.; Kleinman, Hynda K.; Hoffman, Matthew P.

AN 2000:708325 HCAPLUS
DN 133:306006

L133 ANSWER 25 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 13

TI Fosmidomycin as an inhibitor of the non-mevalonate terpenoid pathway depresses **synthesis** of secondary **carotenoids** in flagellates of the green alga Haematococcus pluvialis

SO JOURNAL OF APPLIED BOTANY-ANGEWANDTE BOTANIK, (SEP 2000) Vol. 74, No. 3-4, pp. 137-140.
Publisher: BLACKWELL WISSENSCHAFTS-VERLAG GMBH, KURFURSTENDAMM 57, D-10707 BERLIN, GERMANY.
ISSN: 0949-5460.

AU Hagen C (Reprint); Grunewald K
AN 2000:716267 SCISEARCH

L133 ANSWER 26 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

TI Evaluation of antimutagenic effect of todralazine in cultured lymphocytes

SO MUTAGENESIS, (MAR 2000) Vol. 15, No. 2, pp. 137-141.
Publisher: OXFORD UNIV PRESS, GREAT CLARENDON ST, OXFORD OX2 6DP, ENGLAND.
ISSN: 0267-8357.

AU Gasiorowski K (Reprint); Brokos B
AN 2000:244231 SCISEARCH

L133 ANSWER 27 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 14

TI Phorbols: Chemical synthesis and chemical biology

SO YAKUGAKU ZASSHI-JOURNAL OF THE PHARMACEUTICAL SOCIETY OF JAPAN, (JAN 2000) Vol. 120, No. 1, pp. 76-90.

Publisher: PHARMACEUTICAL SOC JAPAN, 2-12-15-201 SHIBUYA, SHIBUYA-KU, TOKYO 150, JAPAN.
ISSN: 0031-6903.

AU Shibasaki M (Reprint)
AN 2000:36917 SCISEARCH

L133 ANSWER 28 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 15

TI Roseinatronobacter thiooxidans gen. nov., sp. nov., a new alkaliphilic aerobic bacteriochlorophyll a - containing bacterium isolated from a soda lake

SO MICROBIOLOGY, (JAN-FEB 2000) Vol. 69, No. 1, pp. 75-82.
Publisher: MAIK NAUKA/INTERPERIODICA, C/O PLENUM/CONSULTANTS BUREAU 233 SPRING ST, NEW YORK, NY 10013.
ISSN: 0026-2617.

AU Sorokin D Y (Reprint); Tourova T P; Kuznetsov B B; Bryantseva I A; Gorlenko V M
AN 2000:220386 SCISEARCH

L133 ANSWER 29 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 16

TI On the role of hydroxyl radical and the effect of tetrandrine on nuclear factor-kappa B activation by phorbol 12-myristate 13-acetate

SO ANNALS OF CLINICAL AND LABORATORY SCIENCE, (JAN 2000) Vol. 30, No. 1, pp. 65-71.
Publisher: INST CLINICAL SCIENCE INC, 1833 DELANCEY PLACE, PHILADELPHIA, PA 19103.
ISSN: 0091-7370.

AU Ye J P; Ding M; Zhang X Y; Rojanasakul Y; Shi X L (Reprint)
AN 2000:98173 SCISEARCH

L133 ANSWER 30 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 17

TI Separation of chlorophylls and **carotenoids** from marine phytoplankton: a new HPLC method using a reversed phase C-8 column and pyridine-containing mobile phases

SO MARINE ECOLOGY-PROGRESS SERIES, (APR 2000) Vol. 195, pp. 29-45.
Publisher: INTER-RESEARCH, NORDBUNTE 23, D-21385 OLDENDORF LUHE, GERMANY.
ISSN: 0171-8630.

AU Zapata M (Reprint); Rodriguez F; Garrido J L
AN 2000:340849 SCISEARCH

L133 ANSWER 31 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Application and synthesis of chloro(halo)isopentenyl **acetate**

SO Shanghai Huagong (2000), 25(6), 11-14
CODEN: SHAHE2; ISSN: 1004-017X

AU Chen, Yu; Xia, Shunwei; Fu, Jiansong

AN 2000:319928 HCAPLUS
DN 133:176941

L133 ANSWER 32 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 18

TI Screening for the in vitro anti-tumor-promoting activities of edible plants from Malaysia

SO BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY, (JAN 2000) Vol. 64, No. 1, pp. 9-16.

Publisher: JAPAN SOC BIOSCI BIOTECHN AGROCHEM, JAPAN ACAD SOC CTR BLDG, 2-4-6 YAYOI BUNKYO-KU, TOKYO 113, JAPAN.
ISSN: 0916-8451.

AU Murakami A; Ali A M; MatSalleh K; Koshimizu K; Ohigashi H (Reprint)
AN 2000:124890 SCISEARCH

L133 ANSWER 33 OF 558 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN DUPLICATE 19

TI Molecular mechanisms of dissociative glucocorticoid activity.

SO European Journal of Clinical Investigation, Supplement, (2000) 30/3 (6-9).
Refs: 35

ISSN: 0960-135X CODEN: EJCIEB

AU Bamberger C.M.; Schulte H.M.
AN 2001067574 EMBASE

L133 ANSWER 34 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

TI Process for **making** metabolites of **lycopene**.

SO Official Gazette of the United States Patent and Trademark Office Patents, (Dec. 28, 1999) Vol. 1229, No. 4. e-file.
CODEN: OGUPE7. ISSN: 0098-1133.

AU Pfander, Hanspeter [Inventor, Reprint author]; Traber, Bruno [Inventor]
AN 2000:301644 BIOSIS

L133 ANSWER 35 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Production of paintable/bondable polymeric articles by treatment with oxidizing agents

SO PCT Int. Appl., 54 pp.

CODEN: PIXXD2

IN Beholz, Lars Guenter

AN 1999:626234 HCAPLUS
DN 131:244247

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9948933	A1	19990930	WO 1999-US6270	19990324
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 6077913	A	20000620	US 1998-48609	19980326
	US 6100343	A	20000808	US 1998-196608	19981103
	CA 2325732	AA	19990930	CA 1999-2325732	19990324
	AU 9931981	A1	19991018	AU 1999-31981	19990324

L133 ANSWER 36 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Method for accelerated uptake of **carotenoid** mixtures into serum and tissues
 SO PCT Int. Appl., 23 pp.
 CODEN: PIXXD2
 IN Tronnier, Hagen
 AN 1999:626018 HCAPLUS
 DN 131:248057

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9948468	A1	19990930	WO 1999-EP1661	19990313
	W: JP, US RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	DE 19812777	A1	19991007	DE 1998-19812777	19980324

L133 ANSWER 37 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI The role of the Smad3 protein in phorbol ester-induced promoter expression
 SO Journal of Biological Chemistry (1999), 274(52), 36987-36994
 CODEN: JBCHA3; ISSN: 0021-9258
 AU Biggs, Joseph R.; Kraft, Andrew S.
 AN 2000:9484 HCAPLUS
 DN 132:133460

L133 ANSWER 38 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Regio- and stereoselective synthesis of N-H aziridines by N-N bond reduction of N-quinazolinyl aziridines
 SO Tetrahedron (1999), 55(32), 9669-9686
 CODEN: TETRAB; ISSN: 0040-4020
 AU Koohang, Ali; Stanchina, Corey L.; Coates, Robert M.
 AN 1999:512063 HCAPLUS
 DN 131:271853

L133 ANSWER 39 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 20
 TI Expression of GUT1, which encodes glycerol kinase in Saccharomyces cerevisiae, is controlled by the positive regulators Adr1p, Ino2p and Ino4p and the negative regulator Opilp in a carbon source-dependent fashion
 SO NUCLEIC ACIDS RESEARCH, (15 NOV 1999) Vol. 27, No. 22, pp. 4391-4398. Publisher: OXFORD UNIV PRESS, GREAT CLARENDON ST, OXFORD OX2 6DP, ENGLAND. ISSN: 0305-1048.
 AU Grauslund M; Lopes J M; Ronnow B (Reprint)
 AN 1999:928548 SCISEARCH

L133 ANSWER 40 OF 558 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN DUPLICATE 21
 TI Synthesis and in vitro biological activity of 4 α -(2-propenyl)-

5 α -cholest-24-en-3 α ,12 α -diol, a 12 α -hydroxyl analog of 4 α -(2-propenyl)-5 α -cholest-24-en-3 α -ol: The latter is a potent activator of the low-density lipoprotein receptor promoter.

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Refs: 31

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AN 1999314232 EMBASE

L133 ANSWER 41 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 22

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SO BIOLOGY OF REPRODUCTION, (SEP 1999) Vol. 61, No. 3, pp. 715-723.

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AU Call G B; Wolfe M W (Reprint)

AN 1999:665773 SCISEARCH

L133 ANSWER 42 OF 558 MEDLINE on STN DUPLICATE 23

TI Kinetic models for **astaxanthin production** by high cell density mixotrophic culture of the microalga *Haematococcus pluvialis*.

SO JOURNAL OF INDUSTRIAL MICROBIOLOGY AND BIOTECHNOLOGY, (1999 Jul) 23 (1) 691-6.

Journal code: 9705544. ISSN: 1367-5435.

AU Zhang X W; Gong X D; Chen F

AN 2002215131 MEDLINE

L133 ANSWER 43 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

TI Inhibition of trichothecin and ergosterol biosynthesis in *Trichothecium roseum* by lovastatin

SO JOURNAL OF THE CHINESE CHEMICAL SOCIETY, (OCT 1999) Vol. 46, No. 5, pp. 687-692.

Publisher: CHINESE CHEM SOC, PO BOX 609, TAIPEI 10099, TAIWAN.

ISSN: 0009-4536.

AU Huang W L; Lee K R; Shiao M S (Reprint)

AN 1999:807008 SCISEARCH

L133 ANSWER 44 OF 558 MEDLINE on STN DUPLICATE 24

TI Enhancement of sterol synthesis by the monoterpene perillyl alcohol is unaffected by competitive 3-hydroxy-3-methylglutaryl-CoA reductase inhibition.

SO LIPIDS, (1999 Jun) 34 (6) 605-15.

Journal code: 0060450. ISSN: 0024-4201.

AU Cerda S R; Wilkinson J 4th; Branch S K; Broitman S A

AN 1999334447 MEDLINE

L133 ANSWER 45 OF 558 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN DUPLICATE 25

TI Integration of the metabolic pathways of steroids, **carotenoids**, and retinoids.

SO Critical Reviews in Biochemistry and Molecular Biology, (1999) 34/6 (405-410).

Refs: 31

ISSN: 1040-9238 CODEN: CRBBEJ

AU Gawienowski A.M.

AN 2000037032 EMBASE

L133 ANSWER 46 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 26

TI Atmospheric chemistry over the auyantepuy - (5 degrees 46' N; 62 degrees

32' W; 2100 meters asl)

SO INTERCIENCIA, (NOV-DEC 1999) Vol. 24, No. 6, pp. 372-380.
 Publisher: INTERCIENCIA, APARTADO 51842, CARACAS 1050A, VENEZUELA.
 ISSN: 0378-1844.

AU Sanhueza E (Reprint); Donoso L; Santana M; Fernandez E; Romero J
 AN 2000:21195 SCISEARCH

L133 ANSWER 47 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Synthesis of dimethyl carbonate by gas-phase oxidative carbonylation of methanol. II. Effect of promoter on catalytic property
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 CODEN: RHXUD8; ISSN: 0253-2409
 AU Jiang, Ruixia; Wang, Yanji; Zhao, Xinqiang; Wang, Shufang
 AN 1999:704659 HCAPLUS
 DN 132:13287

L133 ANSWER 48 OF 558 MEDLINE on STN DUPLICATE 27
 TI An artificial enhancer with multiple response elements stimulates prokaryotic transcriptional activation mediated by various regulatory proteins.
 SO Molecular & general genetics : MGG, (1999 Sep) 262 (2) 291-301.
 Journal code: 0125036. ISSN: 0026-8925.
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 AN 1999444913 MEDLINE

L133 ANSWER 49 OF 558 MEDLINE on STN DUPLICATE 28
 TI The use of elements of the E. coli Ntr-system for the design of an optimized recombinant expression system for high cell density cultivations.
 SO JOURNAL OF BIOTECHNOLOGY, (1999 Oct 8) 75 (2-3) 241-50.
 Journal code: 8411927. ISSN: 0168-1656.
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 AN 2000021235 MEDLINE

L133 ANSWER 50 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
 TI Production of wax esters during aerobic growth of marine bacteria on **isoprenoid** compounds
 SO APPLIED AND ENVIRONMENTAL MICROBIOLOGY, (JAN 1999) Vol. 65, No. 1, pp. 221-230.
 Publisher: AMER SOC MICROBIOLOGY, 1325 MASSACHUSETTS AVENUE, NW, WASHINGTON, DC 20005-4171.
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 AU Rontani J F (Reprint); Bonin P C; Volkman J K
 AN 1999:61012 SCISEARCH

L133 ANSWER 51 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 29
 TI **Production of astaxanthin** in Haematococcus pluvialis cultured in various media
 SO BIORESOURCE TECHNOLOGY, (MAY 1999) Vol. 68, No. 2, pp. 197-199.
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 ISSN: 0960-8524.
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 AN 1999:114897 SCISEARCH

L133 ANSWER 52 OF 558 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 TI **Production of astaxanthin** in Haematococcus pluvialis cultured in various media;
 the effect of culture medium composition on **carotenoid production** by an alga, for use in the food industry
 SO Bioresource Technol.; (1999) 68, 2, 197-99
 CODEN: BIRTEB ISSN: 0960-8524
 AU Tripathi U; Sarada R; Rao S R; *Ravishankar G A

AN 1999-04914 BIOTECHDS

L133 ANSWER 53 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 30

TI Effect of Pini Folium extract on AP-1 (c-fos/c-jun) in cancer cells.

SO Yakhak Hoeji, (Feb., 1999) Vol. 43, No. 1, pp. 42-47. print.

CODEN: YAHOA3. ISSN: 0513-4234.

AU Park, Kun-Koo [Reprint author]; Chang, Hye Sook; Lee, Jung-Kyo; Choi,
Seung-Hoon

AN 1999:310677 BIOSIS

L133 ANSWER 54 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI New plasticizer EDOS for polar polymers on base of formals of dioxane
alcohols

SO Scientific Israel--Technological Advantages (1999), 1(1), 8-15

CODEN: SITAFG

AU Gotlib, E. M.; Grinberg, L. P.; Verizhnikov, L. V.; Liakumovich, A. G.

AN 1999:415543 HCAPLUS

DN 131:215105

L133 ANSWER 55 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Production method of adhesive tape with good adhesion

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

IN Tokuda, Kenji; Matsuki, Chikara; Shimizu, Ikusuke

AN 1998:334829 HCAPLUS

DN 129:42028

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10140112	A2	19980526	JP 1996-304592	19961115

L133 ANSWER 56 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

TI Preparation of retinyl triphenylphosphonium salts.

PI RU 2119494 C1 19980927 (200015)* C07F009-54

IN BELOVA, V M; BELOVODSKII, V P; OZOROVA, T I

L133 ANSWER 57 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
31

TI 2,6-cyclolycopene-1,5-diol: Total synthesis of a naturally occurring
oxidation product of **lycopene**

SO TETRAHEDRON, (30 JUL 1998) Vol. 54, No. 31, pp. 9011-9022.

Publisher: PERGAMON-ELSEVIER SCIENCE LTD, THE BOULEVARD, LANGFORD LANE,
KIDLINGTON, OXFORD OX5 1GB, ENGLAND.
ISSN: 0040-4020.

AU Traber B; Pfander H (Reprint)

AN 1998:551305 SCISEARCH

L133 ANSWER 58 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

TI Essential role of p53 in phenethyl isothiocyanate-induced apoptosis

SO CANCER RESEARCH, (15 SEP 1998) Vol. 58, No. 18, pp. 4102-4106.

Publisher: AMER ASSOC CANCER RESEARCH, PO BOX 11806, BIRMINGHAM, AL 35202.
ISSN: 0008-5472.

AU Huang C S; Ma W Y; Li J X; Hecht S S; Dong Z G (Reprint)

AN 1998:731941 SCISEARCH

L133 ANSWER 59 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI The 1-deoxy-D-xylulose-5-phosphate pathway for biosynthesis of
carotenoids and other plastidic **isoprenoids**

SO Photosynthesis: Mechanisms and Effects, Proceedings of the International
Congress on Photosynthesis, 11th, Budapest, Aug. 17-22, 1998 (1998),
Volume 4, 3215-3220. Editor(s): Garab, Gyoza. Publisher: Kluwer Academic
Publishers, Dordrecht, Neth.
CODEN: 68VVAS

AU Lichtenthaler, Hartmut K.; Schwender, Jorg; Muller, Christian

AN 2000:284717 HCAPLUS
DN 133:319495

L133 ANSWER 60 OF 558 MEDLINE on STN DUPLICATE 32
TI Cloning and characterization of a gene from Escherichia coli encoding a transketolase-like enzyme that catalyzes the synthesis of D-1-deoxyxylulose 5-phosphate, a common precursor for **isoprenoid**, thiamin, and pyridoxol biosynthesis.
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Journal code: 7505876. ISSN: 0027-8424.
AU Lois L M; Campos N; Putra S R; Danielsen K; Rohmer M; Boronat A
AN 1998151473 MEDLINE

L133 ANSWER 61 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI A family of transketolases that directs **isoprenoid** biosynthesis via a mevalonate-independent pathway
SO Proceedings of the National Academy of Sciences of the United States of America (1998), 95(5), 2100-2104
CODEN: PNASA6; ISSN: 0027-8424
AU Lange, B. Markus; Wildung, Mark R.; McCaskill, David; Croteau, Rodney
AN 1998:173074 HCAPLUS
DN 128:305603

L133 ANSWER 62 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI FacB, the Aspergillus nidulans activator of acetate utilization genes, binds dissimilar DNA sequences
SO EMBO Journal (1998), 17(7), 2042-2054
CODEN: EMJODG; ISSN: 0261-4189
AU Todd, Richard B.; Andrianopoulos, Alex; Davis, Meryl A.; Hynes, Michael J.
AN 1998:249791 HCAPLUS
DN 129:37123

L133 ANSWER 63 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Sterol-independent, sterol response element-dependent, regulation of low density lipoprotein receptor gene expression
SO Journal of Lipid Research (1998), 39(8), 1647-1654
CODEN: JLPRAW; ISSN: 0022-2275
AU Makar, Robert S. J.; Lipsky, Peter E.; Cuthbert, Jennifer A.
AN 1998:542443 HCAPLUS
DN 129:240804

L133 ANSWER 64 OF 558 MEDLINE on STN DUPLICATE 33
TI Smad3 and Smad4 cooperate with c-Jun/c-Fos to mediate TGF-beta-induced transcription.
SO NATURE, (1998 Aug 27) 394 (6696) 909-13.
Journal code: 0410462. ISSN: 0028-0836.
AU Zhang Y; Feng X H; Derynck R
AN 1998401712 MEDLINE

L133 ANSWER 65 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 34
TI Gene transfer to cultured human endometrial stromal cells: a model to study cyclooxygenase-2 gene regulation
SO FERTILITY AND STERILITY, (OCT 1998) Vol. 70, No. 4, pp. 734-739.
Publisher: AMER SOC REPRODUCTIVE MEDICINE, 1209 MONTGOMERY HIGHWAY, BIRMINGHAM, AL 35216-2809.
ISSN: 0015-0282.
AU Huang J G (Reprint); Dawood M Y
AN 1998:814713 SCISEARCH

L133 ANSWER 66 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Suppression of interleukin-2 by the putative endogenous cannabinoid 2-arachidonyl-glycerol is mediated through down-regulation of the nuclear

factor of activated T cells
SO Molecular Pharmacology (1998), 53(4), 676-683
CODEN: MOPMA3; ISSN: 0026-895X
AU Ouyang, Yanli; Hwang, Seong Gu; Han, Seung Hyun; Kaminski, Norbert E.
AN 1998:274367 HCAPLUS
DN 129:39964

L133 ANSWER 67 OF 558 MEDLINE on STN DUPLICATE 35
TI **Promoter** effect of medroxyprogesterone **acetate** (MPA)
in N-methyl-N-nitrosourea (MNU) **induced** mammary tumors in BALB/c
mice.
SO CARCINOGENESIS, (1998 Mar) 19 (3) 529-31.
Journal code: 8008055. ISSN: 0143-3334.
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AN 1998184203 MEDLINE

L133 ANSWER 68 OF 558 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI Biological activities of abscisic acid analogs in the morphological
change of the green alga *Haematococcus pluvialis*;
for e.g. **astaxanthin production**
SO J.Ferment.Bioeng.; (1998) 85, 5, 529-31
CODEN: JFBIEX ISSN: 0922-338X
AU Kobayashi M; Todoroki Y; Hirai N; Kurimura Y; Ohigashi H; Tsuji Y
AN 1998-10565 BIOTECHDS

L133 ANSWER 69 OF 558 MEDLINE on STN DUPLICATE 36
TI Screening for in vitro anti-tumor-promoting activities of edible plants
from Indonesia.
SO CANCER DETECTION AND PREVENTION, (1998) 22 (6) 516-25.
Journal code: 7704778. ISSN: 0361-090X.
AU Murakami A; Morita H; Safitri R; Ramlan A; Koshimizu K; Ohigashi H
AN 1999047154 MEDLINE

L133 ANSWER 70 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
37
TI Calcium- and calmodulin-dependent PMA-activation of the CD44 adhesion
molecule
SO CELL ADHESION AND COMMUNICATION, (DEC 1998) Vol. 6, No. 6, pp. 503-523.
Publisher: HARWOOD ACAD PUBL GMBH, C/O STBS LTD, PO BOX 90, READING RG1
8JL, BERKS, ENGLAND.
ISSN: 1061-5385.
AU Sionov R V; Naor D (Reprint)
AN 1999:104546 SCISEARCH

L133 ANSWER 71 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
38
TI Influence of medium components on **astaxanthin** content and
production of *Haematococcus pluvialis*
SO PROCESS BIOCHEMISTRY, (MAR 1998) Vol. 33, No. 4, pp. 385-391.
Publisher: ELSEVIER SCI LTD, THE BOULEVARD, LANGFORD LANE, KIDLINGTON,
OXFORD OX5 1GB, OXON, ENGLAND.
ISSN: 0032-9592.
AU Gong X D; Chen F (Reprint)
AN 1998:428998 SCISEARCH

L133 ANSWER 72 OF 558 MEDLINE on STN DUPLICATE 39
TI Distribution of the mevalonate and glyceraldehyde phosphate/pyruvate
pathways for **isoprenoid** biosynthesis in unicellular algae and
the cyanobacterium *Synechocystis* PCC 6714.
SO BIOCHEMICAL JOURNAL, (1998 Jul 15) 333 (Pt 2) 381-8.
Journal code: 2984726R. ISSN: 0264-6021.
AU Disch A; Schwender J; Muller C; Lichtenthaler H K; Rohmer M
AN 1998324900 MEDLINE

L133 ANSWER 73 OF 558 MEDLINE on STN DUPLICATE 40
 TI **Promoter** analysis of the **acetate-inducible**
 isocitrate lyase gene (acu-3) from *Neurospora crassa*.
 SO BIOCHIMICA ET BIOPHYSICA ACTA, (1998 Nov 8) 1442 (2-3) 320-5.
 Journal code: 0217513. ISSN: 0006-3002.
 AU Bibbins M; Sheffield P J; Gainey L D; Mizote T; Connerton I F
 AN 1999023753 MEDLINE

L133 ANSWER 74 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
 TI **Promoter** analysis of the **acetate-inducible**
 isocitrate lyase gene (acu-3) from *Neurospora crassa*
 SO BIOCHIMICA ET BIOPHYSICA ACTA-GENE STRUCTURE AND EXPRESSION, (8 NOV 1998)
 Vol. 1442, No. 2-3, pp. 320-325.
 Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM,
 NETHERLANDS.
 ISSN: 0167-4781.
 AU Bibbins M; Sheffield P J; Gainey L D S; Mizote T; Connerton I F (Reprint)
 AN 1998:864714 SCISEARCH

L133 ANSWER 75 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI On the absence of the glyceraldehyde 3-phosphate/pyruvate pathway for
isoprenoid biosynthesis in fungi and yeasts.
 SO FEMS Microbiology Letters, (Nov. 15, 1998) Vol. 168, No. 2, pp. 201-208.
 print.
 CODEN: FMLED7. ISSN: 0378-1097.
 AU Disch, Andrea; Rohmer, Michel [Reprint author]
 AN 1999:5130 BIOSIS

L133 ANSWER 76 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI **Production** of **astaxanthin** in *Haematococcus pluvialis*
 cultured in various media
 SO Bioresource Technology (1998), Volume Date 1999, 68(2), 197-199
 CODEN: BIRTEB; ISSN: 0960-8524
 AU Tripathi, Usha; Sarada, R.; Rao, S. Ramachandra; Ravishankar, G. A.
 AN 1999:115935 HCAPLUS
 DN 130:222206

L133 ANSWER 77 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI Characterization of phorbol ester-inducible human neuronal factors involved
 in trans-activation of the galanin gene.
 SO Biochemical and Biophysical Research Communications, (May 8, 1998) Vol.
 246, No. 1, pp. 192-198. print.
 CODEN: BBRCA9. ISSN: 0006-291X.
 AU Jiang, Kai; Spyrou, Giannis; Rokaeus, Ake [Reprint author]
 AN 1998:271571 BIOSIS

L133 ANSWER 78 OF 558 MEDLINE on STN DUPLICATE 41
 TI Distribution of mevalonate and glyceraldehyde 3-phosphate/pyruvate routes
 for **isoprenoid** biosynthesis in some gram-negative bacteria and
 mycobacteria.
 SO FEMS MICROBIOLOGY LETTERS, (1998 Jul 1) 164 (1) 169-75.
 Journal code: 7705721. ISSN: 0378-1097.
 AU Putra S R; Disch A; Bravo J M; Rohmer M
 AN 1998340514 MEDLINE

L133 ANSWER 79 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Neural control of phenylethanolamine-N-methyltransferase via cholinergic
 activation of Egr-1
 SO Advances in Pharmacology (San Diego) (1998), 42(Catecholamines), 77-81
 CODEN: ADPHEL; ISSN: 1054-3589
 AU Wong, Dona L.; Ebert, Steven N.; Morita, Kyoji
 AN 1997:711960 HCAPLUS
 DN 128:631

L133 ANSWER 80 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Study on **production** conditions of **carotenoid**

SO Shipin Kexue (Beijing) (1998), 19(8), 20-22

CODEN: SPKHD5; ISSN: 1002-6630

AU Yang, Ge; Li, Ya

AN 1998:761146 HCAPLUS

DN 130:181535

L133 ANSWER 81 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
42

TI Inhibition of plant growth by mevinolin and reversal of this inhibition by
isoprenoids

SO SOUTH AFRICAN JOURNAL OF BOTANY, (FEB 1998) Vol. 64, No. 1, pp. 18-24.

Publisher: BUREAU SCIENTIFIC PUBL, P O BOX 2600, PRETORIA 0001, SOUTH
AFRICA.

ISSN: 0254-6299.

AU Josekutty P C (Reprint)

AN 1998:304704 SCISEARCH

L133 ANSWER 82 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Regulatable expression cassettes for Yarrowia lipolytica using the
promoter of the isocitrate lyase gene

SO Ger. Offen., 14 pp.

CODEN: GWXXBX

IN Juretzek, Thomas; Prinz, Anke; Schunck, Wolf-Hagen; Barth, Gerold;
Mauersberger, Stephan

AN 1997:105219 HCAPLUS

DN 126:114186

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19525282	A1	19970102	DE 1995-19525282	19950629

L133 ANSWER 83 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

TI Glue composition for footwear **production** - comprises
butadiene-nitrile rubber, chlorinated **isoprene**,
tert-butyl-phenol formaldehyde resin, zinc and magnesium oxide(s), silica,
and ethyl **acetate**.

PI RU 2078108 C1 19970427 (199805)* 7p C09J109-02

IN GLAGOLEV, V A; LYUSOVA, L R; NORKIN, I S

L133 ANSWER 84 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
43

TI Gastrin and phorbol 12-myristate 13-**acetate** **regulate**
the human histidine decarboxylase **promoter** through raf-dependent
activation of extracellular signal-**regulated**
kinase-related signaling pathways in gastric cancer cells

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (24 OCT 1997) Vol. 272, No. 43, pp.
27015-27024.

Publisher: AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 9650 ROCKVILLE
PIKE, BETHESDA, MD 20814.

ISSN: 0021-9258.

AU Hocker M; Henihan R J; Rosewicz S; Riecken E O; Zhang Z S; Koh T J; Wang T
C (Reprint)

AN 97:800000 SCISEARCH

L133 ANSWER 85 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
44

TI The keratinocyte-specific Epstein-Barr virus ED-L2 **promoter** is
regulated by phorbol 12-myristate 13-**acetate** through two
cis-regulatory elements containing E-box and Kruppel-like factor
motifs

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (26 SEP 1997) Vol. 272, No. 39, pp.
24433-24442.

Publisher: AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 9650 ROCKVILLE

PIKE, BETHESDA, MD 20814.
ISSN: 0021-9258.

AU Jenkins T D; Nakagawa H; Rustgi A K (Reprint)
AN 97:734668 SCISEARCH

L133 ANSWER 86 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
45

TI Conditional expression of the mitogen-activated protein kinase (MAPK)
phosphatase MKP-1 preferentially inhibits p38 MAPK and stress-activated
protein kinase in U937 cells

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (4 JUL 1997) Vol. 272, No. 27, pp.
16917-16923.

Publisher: AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 9650 ROCKVILLE
PIKE, BETHESDA, MD 20814.
ISSN: 0021-9258.

AU Franklin C C (Reprint); Kraft A S
AN 97:512525 SCISEARCH

L133 ANSWER 87 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Torsional Constraints on the Formation of Open Promoter Complexes on DNA
Minicircles Carrying σ 54-Dependent Promoters

SO Biochemistry (1997), 36(40), 12303-12316
CODEN: BICHAW; ISSN: 0006-2960

AU Qureshi, Matloob; Eydmann, Trevor; Austin, Sara; Dixon, Ray
AN 1997:623484 HCAPLUS
DN 127:186586

L133 ANSWER 88 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
46

TI Transcriptional induction of collagenase-1 in differentiated monocyte-like
(U937) cells is regulated by AP-1 and an upstream C/EBP-beta site

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2 MAY 1997) Vol. 272, No. 18, pp.
11840-11849.

Publisher: AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 9650 ROCKVILLE
PIKE, BETHESDA, MD 20814.
ISSN: 0021-9258.

AU Doyle G A R; Pierce R A; Parks W C (Reprint)
AN 97:370585 SCISEARCH

L133 ANSWER 89 OF 558 MEDLINE on STN DUPLICATE 47

TI DNA bending and the initiation of transcription at sigma54-dependent
bacterial promoters.

SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF
AMERICA, (1997 Sep 2) 94 (18) 9568-72.
Journal code: 7505876. ISSN: 0027-8424.

AU Carmona M; Claverie-Martin F; Magasanik B
AN 97420721 MEDLINE

L133 ANSWER 90 OF 558 Elsevier BIOBASE COPYRIGHT 2004 Elsevier Science B.V.
on STN

AN 1997186634 ESBIIOBASE

TI Resistance to radiation-induced apoptosis in Burkitt's lymphoma cells is
associated with defective ceramide signaling

AU Michael J.M.; Lavin M.F.; Watters D.J.

CS D.J. Watters, Queensland Cancer Fund Research Unit, Queensland Inst. of
Med. Research, P.O. Royal Brisbane Hospital, Herston, Brisbane, QLD 4029,
Australia.

E-mail: diannew@gimr.edu.au

SO Cancer Research, (1997), 57/16 (3600-3605), 41 reference(s)
CODEN: CNREA8 ISSN: 0008-5472

DT Journal; Article

CY United States

LA English

SL English

L133 ANSWER 91 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Total synthesis of C31-methyl ketone apocarotenoids 3. On the structure of
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 (9Z)-(3S)-7'-apohopkinsiaxanthin
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L133 ANSWER 95 OF 558 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
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L133 ANSWER 100 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
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L133 ANSWER 103 OF 558 MEDLINE on STN DUPLICATE 53
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	R: AT, BE, DE, DK, FR, GB, NL				
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L133 ANSWER 106 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
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 CODEN: FEREAC; ISSN: 0097-6326
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 DN 125:166533

L133 ANSWER 107 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 56
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 CODEN: FEREAC; ISSN: 0097-6326
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L133 ANSWER 109 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
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L133 ANSWER 110 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
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L133 ANSWER 111 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
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L133 ANSWER 112 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
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L133 ANSWER 113 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
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L133 ANSWER 114 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
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L133 ANSWER 115 OF 558 LIFESCI COPYRIGHT 2004 CSA on STN
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L133 ANSWER 116 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
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L133 ANSWER 117 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
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L133 ANSWER 118 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
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L133 ANSWER 119 OF 558 MEDLINE on STN DUPLICATE 62

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L133 ANSWER 120 OF 558 MEDLINE on STN DUPLICATE 63

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L133 ANSWER 121 OF 558 MEDLINE on STN DUPLICATE 64

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L133 ANSWER 122 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

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species

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L133 ANSWER 123 OF 558 MEDLINE on STN DUPLICATE 65

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L133 ANSWER 124 OF 558 MEDLINE on STN DUPLICATE 66

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DN 125:196054

L133 ANSWER 126 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

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DN 125:222184

L133 ANSWER 127 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
67

TI **ASTAXANTHIN PRODUCTION** FROM THE GREEN-ALGA
HAEMATOCOCCUS-PLUVIALIS WITH DIFFERENT STRESS CONDITIONS

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L133 ANSWER 128 OF 558 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN

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Haematococcus pluvialis with different stress conditions;
effect of sodium **acetate** and NaCl concentration on pigment
production

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CODEN: BILED3 ISSN: 0141-5492

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L133 ANSWER 129 OF 558 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN

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L133 ANSWER 130 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

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 AN 1996:521534 HCAPLUS
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L133 ANSWER 131 OF 558 MEDLINE on STN DUPLICATE 68
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L133 ANSWER 132 OF 558 MEDLINE on STN DUPLICATE 69
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L133 ANSWER 133 OF 558 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
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 by culture of **astaxanthin**-producing Agrobacterium
 aurantiacus; application in aquaculture
 AN 1995-13969 BIOTECHDS
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L133 ANSWER 134 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
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 CODEN: USXXAM
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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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L133 ANSWER 135 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
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 CODEN: GWXXBX
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 DN 123:56329

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 07082246	A2	19950328	JP 1994-211529	19940905

L133 ANSWER 136 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
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L133 ANSWER 137 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE

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L133 ANSWER 138 OF 558 MEDLINE on STN DUPLICATE 71

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L133 ANSWER 139 OF 558 MEDLINE on STN DUPLICATE 72

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L133 ANSWER 140 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
73

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AND RAT KERATINOCYTES
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ISSN: 0143-3334.
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L133 ANSWER 141 OF 558 LIFESCI COPYRIGHT 2004 CSA on STN

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antagonistic in GH sub(4) neuroendocrine cells
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L133 ANSWER 142 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
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TI REGULATION OF THE CAULOBACTER-CRESCENTUS RPON GENE AND FUNCTION OF THE
PURIFIED SIGMA(54) IN FLAGELLAR GENE-TRANSCRIPTION
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L133 ANSWER 143 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

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differentiation of HL-60 human leukemia cells
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DN 123:104290

L133 ANSWER 144 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE

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L133 ANSWER 145 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

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CODEN: BIJOAK; ISSN: 0264-6021

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DN 123:133897

L133 ANSWER 146 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

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CODEN: IJBBBQ; ISSN: 0301-1208

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DN 124:78467

L133 ANSWER 147 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

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SO Archives of Microbiology (1995), 163(5), 322-8

CODEN: AMICCW; ISSN: 0302-8933

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Yotsumoto, Yoshihisa; Teranishi, Yutaka; Ueda, Mitsuyoshi; Tanaka, Atsuo

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DN 123:190432

L133 ANSWER 148 OF 558 MEDLINE on STN DUPLICATE 76

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L133 ANSWER 149 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 77

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ISSN: 0904-213X.

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L133 ANSWER 150 OF 558 MEDLINE on STN DUPLICATE 78

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Journal code: 0125036. ISSN: 0026-8925.

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L133 ANSWER 151 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 79
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 ISSN: 0014-5793.
 AU KISS Z (Reprint); TOMONO M
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L133 ANSWER 152 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Characterization of a functional E box motif in the proximal rat preprotachykinin-A promoter
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 CODEN: NELED5; ISSN: 0304-3940
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L133 ANSWER 153 OF 558 MEDLINE on STN DUPLICATE 80
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L133 ANSWER 154 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 81
 TI ENVIRONMENTAL AND DEVELOPMENTAL REGULATION OF **CAROTENOGENESIS** IN THE DIMORPHIC FUNGUS MUCOR-ROUXII
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L133 ANSWER 155 OF 558 MEDLINE on STN DUPLICATE 82
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 Journal code: 2985088R. ISSN: 0022-2836.
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L133 ANSWER 156 OF 558 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN DUPLICATE 83
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L133 ANSWER 157 OF 558 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 TI Phaffia strains transformed with genes encoding heterologous protein or **carotenoid**;
 Phaffia rhodozyma transformation; potential in recombinant protein and **carotenoid** e.g. **astaxanthin**, zeaxanthin, cantaxanthin and beta-**carotene production**
 AN 1994-06988 BIOTECHDS
 PI WO 9406918 31 Mar 1994

L133 ANSWER 158 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI **Synthesis of β - carotene**

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 10 pp.

CODEN: CNXXEV

IN Zheng, Qingquan

AN 1995:874825 HCAPLUS

DN 123:256440

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI CN 1090271	A	19940803	CN 1993-117490	19930920

L133 ANSWER 159 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

TI Complex of biologically active lipids **production** - with increase in **carotenoid** content by using a medium containing sodium **acetate** and vitamin B1.

PI RU 2022019 C1 19941030 (199526)* 4p C12P007-64

IN FUNTIKOVA, N S; KONOVA, I V; TORLANOVA, B D

L133 ANSWER 160 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 84

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ISSN: 0021-9258.

AU DELPHIN C; BAUDIER J (Reprint)

AN 94:745866 SCISEARCH

L133 ANSWER 161 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 85

TI CLONING AND CHARACTERIZATION OF THE HUMAN NEUTROPHIL-ACTIVATING PEPTIDE (ENA-78) GENE

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ISSN: 0021-9258.

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AN 94:719605 SCISEARCH

L133 ANSWER 162 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Palladium-catalyzed vinylation of tertiary allylic alcohols: a new protocol for the **synthesis** of **isoprenoid** aldehydes

SO Tetrahedron (1994), 50(11), 3389-96

CODEN: TETRAB; ISSN: 0040-4020

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AN 1994:605716 HCAPLUS

DN 121:205716

L133 ANSWER 163 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 86

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ISSN: 0950-9232.

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AN 94:674848 SCISEARCH

L133 ANSWER 164 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Nucleotide sequence and characterization of the Rhodobacter sphaeroides glnB and glnA genes

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CODEN: MROBEO; ISSN: 1350-0872

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AN 1994:597376 HCAPLUS

DN 121:197376

L133 ANSWER 165 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
 87
 TI APPEARANCE OF DEPOLARIZATION-INDUCED AND MAITOTOXIN-INDUCED $[Ca^{2+}]$ (I)
 ELEVATION IN SINGLE LAN-1 HUMAN NEUROBLASTOMA-CELLS ON EXPOSURE TO
 RETINOIC ACID
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 ISSN: 0022-3042.
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 AN 94:689074 SCISEARCH

L133 ANSWER 166 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Inhibitory effect of curcumin on xanthine dehydrogenase/oxidase induced by
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 SO Carcinogenesis (1994), 15(8), 1717-21
 CODEN: CRNGDP; ISSN: 0143-3334
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 AN 1994:570020 HCAPLUS
 DN 121:170020

L133 ANSWER 167 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Potentiation of glucocorticoid-mediated induction of the mouse mammary
 tumor virus promoter in mammary carcinoma cells by activation of protein
 kinase C
 SO Biochemical and Biophysical Research Communications (1994), 198(3), 1183-8
 CODEN: BBRCA9; ISSN: 0006-291X
 AU Nordeen, Steven K.
 AN 1994:183250 HCAPLUS
 DN 120:183250

L133 ANSWER 168 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
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 SO Hwahak Sekye (1994), 34(11), 1056-9
 CODEN: HWSEEX; ISSN: 1225-004X
 AU Shin, G. H.
 AN 1995:556661 HCAPLUS
 DN 123:51769

L133 ANSWER 169 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
 88
 TI REGULATION OF ACETYL PHOSPHATE SYNTHESIS AND DEGRADATION, AND THE CONTROL
 OF FLAGELLAR EXPRESSION IN ESCHERICHIA-COLI
 SO MOLECULAR MICROBIOLOGY, (JUN 1994) Vol. 12, No. 6, pp. 973-984.
 ISSN: 0950-382X.
 AU PRUSS B M; WOLFE A J (Reprint)
 AN 94:407454 SCISEARCH

L133 ANSWER 170 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
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 investigations on structure and function of **carotenoproteins** at
 the atomic level
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L133 ANSWER 171 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
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 INDUCTION BY SERUM AND PHORBOL 12-MYRISTATE 13-ACETATE
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 AN 94:314648 SCISEARCH

L133 ANSWER 172 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 89

TI FORMATION OF CHLOROPLAST **ISOPRENIDS** FROM PYRUVATE AND **ACETATE** BY CHLOROPLASTS FROM YOUNG SPINACH PLANTS - EVIDENCE FOR A MEVALONATE PATHWAY IN IMMATURE CHLOROPLASTS

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ISSN: 0981-9428.

AU HEINTZE A; RIEDEL A; AYDOGDU S; SCHULTZ G (Reprint)

AN 95:4123 SCISEARCH

L133 ANSWER 173 OF 558 MEDLINE on STN DUPLICATE 90

TI Analysis of the regulation of the *Aspergillus nidulans* *acuD* gene, encoding isocitrate lyase, by construction of a hybrid promoter.

SO Molecular & general genetics : MGG, (1994 Jun 15) 243 (6) 654-9.
Journal code: 0125036. ISSN: 0026-8925.

AU De Lucas J R; Gregory S; Turner G

AN 94301295 MEDLINE

L133 ANSWER 174 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

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ISSN: 0176-1617.

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AN 94:350525 SCISEARCH

L133 ANSWER 175 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Molecular analysis of a potentially phorbol-regulatable region of the human topoisomerase II α gene promoter

SO Biochemical and Biophysical Research Communications (1994), 200(1), 489-96
CODEN: BBRCA9; ISSN: 0006-291X

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AN 1994:402253 HCAPLUS

DN 121:2253

L133 ANSWER 176 OF 558 MEDLINE on STN DUPLICATE 91

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SO MOLECULAR AND GENERAL GENETICS, (1994 Feb) 242 (4) 484-9.
Journal code: 0125036. ISSN: 0026-8925.

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AN 94166760 MEDLINE

L133 ANSWER 177 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 92

TI METABOLIC PATHWAY FOR BETA-**CAROTENE** BIOSYNTHESIS - SIMILARITIES IN THE PLANT AND ANIMAL

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ISSN: 0097-6156.

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AN 94:267955 SCISEARCH

L133 ANSWER 178 OF 558 MEDLINE on STN DUPLICATE 93

TI Effects of selected anti-tumor-promoting chemicals on metabolic cooperation between Chinese hamster V79 cells.

SO TOXICOLOGY AND APPLIED PHARMACOLOGY, (1994 Jun) 126 (2) 338-44.
Journal code: 0416575. ISSN: 0041-008X.

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L133 ANSWER 179 OF 558 MEDLINE on STN DUPLICATE 94
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 AN 95010106 MEDLINE

L133 ANSWER 180 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 95
 TI HYPER-ACCUMULATION OF **ASTAXANTHIN** IN A GREEN-ALGA HAEMATOCOCCUS-PLUVIALIS AT ELEVATED-TEMPERATURES
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 AN 94:192033 SCISEARCH

L133 ANSWER 181 OF 558 MEDLINE on STN DUPLICATE 96
 TI Regulation of mammalian ribonucleotide reductase R1 mRNA stability is mediated by a ribonucleotide reductase R1 mRNA 3'-untranslated region cis-trans interaction through a protein kinase C-controlled pathway.
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 AU Chen F Y; Amara F M; Wright J A
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L133 ANSWER 182 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
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 CODEN: MCEND6; ISSN: 0303-7207
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 AN 1994:570816 HCAPLUS
 DN 121:170816

L133 ANSWER 183 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Ecologically sustainable production of chitin and chitosan
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 CODEN: 62YQAK
 AU Joensen, Olav; Villadsen, Andreas
 AN 1996:380751 HCAPLUS
 DN 125:61357

L133 ANSWER 184 OF 558 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
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 from Haematococcus pluvialis
 AN 1993-08215 BIOTECHDS
 PI JP 05068585 23 Mar 1993

L133 ANSWER 185 OF 558 MEDLINE on STN DUPLICATE 97
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 Journal code: 2985121R. ISSN: 0021-9258.
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L133 ANSWER 186 OF 558 MEDLINE on STN DUPLICATE 98
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L133 ANSWER 187 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
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SO Journal of Bacteriology (1993), 175(22), 7348-55
CODEN: JOBAAY; ISSN: 0021-9193
AU Grundy, Frank J.; Waters, Debra A.; Allen, S. H. George; Henkin, Tina M.
AN 1994:70593 HCAPLUS
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L133 ANSWER 188 OF 558 MEDLINE on STN DUPLICATE 99
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SO JOURNAL OF BACTERIOLOGY, (1993 Nov) 175 (21) 7033-44.
Journal code: 2985120R. ISSN: 0021-9193.
AU Glucksmann M A; Reuber T L; Walker G C
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L133 ANSWER 189 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
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CODEN: JOBAAY; ISSN: 0021-9193
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DN 119:2447

L133 ANSWER 190 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 100
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L133 ANSWER 191 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
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CODEN: TETRAB; ISSN: 0040-4020
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AN 1993:408987 HCAPLUS
DN 119:8987

L133 ANSWER 192 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 101
TI 1'-ACETOXYCHAVICOL **ACETATE** AS A POTENT INHIBITOR OF TUMOR **PROMOTER-INDUCED** EPSTEIN-BARR-VIRUS **ACTIVATION** FROM LANGUAS-GALANGA, A TRADITIONAL THAI CONDIMENT
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L133 ANSWER 193 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
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AN 93:563977 SCISEARCH

L133 ANSWER 194 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

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Phaffia rhodozyma

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CODEN: BILED3; ISSN: 0141-5492

AU Meyer, P. S.; du Preez, J. C.

AN 1994:6851 HCAPLUS

DN 120:6851

L133 ANSWER 195 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
102

TI THE RAS AND PROTEIN-KINASE-C SIGNALING PATHWAYS ARE FUNCTIONALLY
ANTAGONISTIC IN GH4 NEUROENDOCRINE CELLS

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ISSN: 0888-8809.

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AN 93:459578 SCISEARCH

L133 ANSWER 196 OF 558 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN

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acetate-induced cyst cells of a green unicellular alga,
Haematococcus pluvialis;

astaxanthin production

SO Appl. Environ. Microbiol.; (1993) 59, 3, 867-73
CODEN: AEMIDF

AU Kobayashi M; Kakizono T; *Nagai S

AN 1993-03941 BIOTECHDS

L133 ANSWER 197 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
103

TI INHIBITION OF 8-HYDROXYDEOXYGUANOSINE FORMATION BY CURCUMIN IN MOUSE
FIBROBLAST CELLS

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ISSN: 0143-3334.

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AN 93:240053 SCISEARCH

L133 ANSWER 198 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

TI COMPETITION OF CO2 AND **ACETATE** AS SUBSTRATES FOR FATTY-ACID
SYNTHESIS IN IMMATURE CHLOROPLASTS OF BARLEY SEEDLINGS

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AU PREISS M (Reprint); ROSIDI B; HOPPE P; SCHULTZ G

AN 94:2910 SCISEARCH

L133 ANSWER 199 OF 558 MEDLINE on STN DUPLICATE 104

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sensitive glutamyl-tRNA synthetase.

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Journal code: 0125036. ISSN: 0026-8925.

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L133 ANSWER 200 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

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pluvialis

SO Microbial Utilization of Renewable Resources (1993), Volume Date 1992, 8,
339-49
CODEN: MURRE6

AU Kobayashi, Makio; Kakizono, Toshihide; Nagai, Shiro

AN 1994:101500 HCAPLUS
DN 120:101500

L133 ANSWER 201 OF 558 MEDLINE on STN DUPLICATE 105
TI Hyaluronic acid uptake by the isolated, perfused rat liver: an index of
hepatic sinusoidal endothelial cell function.
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Journal code: 8302946. ISSN: 0270-9139.
AU Deaciuc I V; Bagby G J; Lang C H; Spitzer J J
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L133 ANSWER 202 OF 558 MEDLINE on STN DUPLICATE 106
TI Effects of insertions and deletions in glnG (ntrC) of Escherichia coli on
nitrogen regulator I-dependent DNA binding and transcriptional activation.
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Journal code: 2985120R. ISSN: 0021-9193.
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AN 93106955 MEDLINE

L133 ANSWER 203 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
107
TI INHIBITION OF PHYTOSTEROL BIOSYNTHESIS IN ELICTOR-TREATED CULTURES OF
AMMI-MAJUS
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ISSN: 0031-9422.
AU FULTON D C; KROON P A; MATERN U; THRELFALL D R (Reprint); WHITEHEAD I M
AN 93:585759 SCISEARCH

L133 ANSWER 204 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Cloning and characterization of putative promoter soybean DNA sequences
responding to IAA induction in Escherichia coli and soybean
SO (1992) 60 pp. Avail.: Univ. Microfilms Int., Order No. DA9323839
From: Diss. Abstr. Int. B 1993, 54(4), 1780-1
AU Chaung, Wenren
AN 1994:155719 HCAPLUS
DN 120:155719

L133 ANSWER 205 OF 558 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI Method of expression of genes under nitrogen deficiency;
using a vector comprising the glutamine-synthetase promoter-2 of
Escherichia coli and ammonium and/or glutamine as limiting N-source
AN 1992-11724 BIOTECHDS
PI DE 4102594 30 Jul 1992

L133 ANSWER 206 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
TI Adhesive compsn. for fixing shoe-soles - contains polychloroprene,
specified resins, silica, zinc and magnesium oxide(s), oligo-piperylene,
di tert. butyl-para-cresol and organic solvent for improved strength and
stability on storage.
PI SU 1754753 A1 19920815 (199331)* 4p C09J111-00
IN IRKHIN, B L; PANTUKH, B I; TUKTAROVA, L A

L133 ANSWER 207 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
TI Reagent for treatment of water-based drilling solution - contains calcium
acetate, obtd. as waste from thermal wood decomposition, magnesium
chloride, by-product from di methyl dioxane production and water.
PI SU 1745750 A1 19920707 (199326)* 4p C09K007-02
IN ANGELOPULO, O K; AVAKOV, V E; BALABA, V I

L133 ANSWER 208 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
TI Adhesive compsn. for adhesive tape **production** - includes synthetic
isoprene rubber, glycerine ether of hydrogenated pine colophony
and tetra ethoxy silane.
PI SU 1707043 A1 19920123 (199313)* 3p C09J007-02

IN ALEKSEENKO, A I; BUREEV, YU A; PARFENENKO, I D

L133 ANSWER 209 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

TI Glycerol derivs. useful as intermediates to **isoprenoid** phospholipid(s) - obtd. e.g. from chain **isoprenoid** cpds., by reaction in presence of di isopropyl ethylamine methylene chloride with di phenyl phospho chloridate.

PI JP 04257595 A 19920911 (199243)* 7p C07C009-09
US 5221796 A 19930622 (199326) 14p C07F009-02
JP 2665630 B2 19971022 (199747) 7p C07F009-09

IN MORI, H; NISHIKAWA, N

L133 ANSWER 210 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

TI New long chain glycerol derivs. - useful as intermediates for biocompatible **isoprenoid** phospholipid(s).

PI JP 04257544 A 19920911 (199243)* 5p C07C069-30
US 5221796 A 19930622 (199326) 14p C07F009-02
JP 2670908 B2 19971029 (199748) 6p C07C069-30

IN MORI, H; NISHIKAWA, N

L133 ANSWER 211 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI A role for the acidic trimer repeat region of transcription factor σ 54 in setting the rate and temperature dependence of promoter melting in vivo

SO Journal of Biological Chemistry (1992), 267(34), 24762-8
CODEN: JBCHA3; ISSN: 0021-9258

AU Wong, Caine; Gralla, Jay D.

AN 1993:487648 HCAPLUS

DN 119:87648

L133 ANSWER 212 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Interaction of AP-1-, AP-2-, and Spl-like proteins with two distinct sites in the upstream regulatory region of the plasminogen activator inhibitor-1 gene mediates the phorbol 12-myristate 13-acetate response

SO Journal of Biological Chemistry (1992), 267(21), 15086-91
CODEN: JBCHA3; ISSN: 0021-9258

AU Descheemaeker, Koen A.; Wyns, Sabine; Nelles, Luc; Auwerx, Johan; Ny, Tor; Collen, Desire

AN 1992:544690 HCAPLUS

DN 117:144690

L133 ANSWER 213 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

TI SQUALESTATIN-1, A POTENT INHIBITOR OF SQUALENE SYNTHASE, WHICH LOWERS SERUM-CHOLESTEROL INVIVO

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (15 JUN 1992) Vol. 267, No. 17, pp. 11705-11708.
ISSN: 0021-9258.

AU BAXTER A; FITZGERALD B J; HUTSON J L; MCCARTHY A D (Reprint); MOTTERAM J M; ROSS B C; SAPRA M; SNOWDEN M A; WATSON N S; WILLIAMS R J; WRIGHT C

AN 92:371596 SCISEARCH

L133 ANSWER 214 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Phosphorylation of nitrogen regulator I of Escherichia coli induces strong cooperative binding to DNA essential for activation of transcription.
[Erratum to document cited in CA117(7):64200g]

SO Proceedings of the National Academy of Sciences of the United States of America (1992), 89(18), 8856
CODEN: PNASA6; ISSN: 0027-8424

AU Weiss, Verena; Claverie-Martin, Felix; Magasanik, Boris

AN 1993:1903 HCAPLUS

DN 118:1903

L133 ANSWER 215 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Regulated expression of the human acetylated low density lipoprotein

receptor gene and isolation of promoter sequences

SO Proceedings of the National Academy of Sciences of the United States of America (1992), 89(17), 8102-6
CODEN: PNASA6; ISSN: 0027-8424

AU Moulton, Karen S.; Wu, Hong; Barnett, Joellen; Parthasarathy, Sampath; Glass, Christopher K.

AN 1992:627626 HCAPLUS

DN 117:227626

L133 ANSWER 216 OF 558 MEDLINE on STN DUPLICATE 109

TI Role of phosphorylated metabolic intermediates in the regulation of glutamine synthetase synthesis in Escherichia coli.

SO JOURNAL OF BACTERIOLOGY, (1992 Oct) 174 (19) 6061-70.
Journal code: 2985120R. ISSN: 0021-9193.

AU Feng J; Atkinson M R; McCleary W; Stock J B; Wanner B L; Ninfa A J

AN 93015643 MEDLINE

L133 ANSWER 217 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Phosphorylation of nitrogen regulator I of Escherichia coli induces strong cooperative binding to DNA essential for activation of transcription

SO Proceedings of the National Academy of Sciences of the United States of America (1992), 89(11), 5088-92
CODEN: PNASA6; ISSN: 0027-8424

AU Weiss, Verena; Claverie-Martin, Felix; Magasanik, Boris

AN 1992:464200 HCAPLUS

DN 117:64200

L133 ANSWER 218 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 110

TI INDUCTION OF C-JUN PROTOONCOGENE EXPRESSION AND TRANSCRIPTION FACTOR AP-1 ACTIVITY BY THE POLYOMA-VIRUS MIDDLE-SIZED TUMOR-ANTIGEN

SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (01 JUN 1992) Vol. 89, No. 11, pp. 4972-4976.
ISSN: 0027-8424.

AU SCHONTHAL A (Reprint); SRINIVAS S; ECKHART W

AN 92:348706 SCISEARCH

L133 ANSWER 219 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 111

TI PHOSPHORYLATION OF TRANSLATION INITIATION-FACTOR EIF-4E IS INDUCED IN A RAS-DEPENDENT MANNER DURING NERVE GROWTH FACTOR-MEDIATED PC12 CELL-DIFFERENTIATION

SO MOLECULAR AND CELLULAR BIOLOGY, (MAR 1992) Vol. 12, No. 3, pp. 1239-1247.
ISSN: 0270-7306.

AU FREDERICKSON R M; MUSHYNSKI W E; SONENBERG N (Reprint)

AN 92:127362 SCISEARCH

L133 ANSWER 220 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Sugars, fatty acids, and photosynthetic gene expression

SO Res. Photosynth., Proc. Int. Congr. Photosynth., 9th (1992), Volume 4, 753-60. Editor(s): Murata, Norio. Publisher: Kluwer, Dordrecht, Neth.
CODEN: 59IZA5

AU Sheen, Jen; Huang, Hai; Schaffner, Anton R.; Leon, Patricia; Jang, Jyan Chyun

AN 1993:646026 HCAPLUS

DN 119:246026

L133 ANSWER 221 OF 558 MEDLINE on STN DUPLICATE 112

TI DNA supercoiling response of the sigma 54-dependent Klebsiella pneumoniae nifL promoter in vitro.

SO JOURNAL OF MOLECULAR BIOLOGY, (1992 Jun 5) 225 (3) 591-607.
Journal code: 2985088R. ISSN: 0022-2836.

AU Whitehall S; Austin S; Dixon R

AN 92292148 MEDLINE

L133 ANSWER 222 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI A 5'-flanking region of the bovine tyrosine hydroxylase gene is involved
 in cell-specific expression, activation of gene transcription by phorbol
 ester, and transactivation by c-Fos and c-Jun
 SO Molecular and Cellular Neuroscience (1992), 3(5), 383-94
 CODEN: MOCNED; ISSN: 1044-7431
 AU Goc, A.; Norman, S. A.; Puchacz, E.; Stachowiak, E. K.; Lukas, R. J.;
 Stachowiak, M. K.
 AN 1992:646551 HCAPLUS
 DN 117:246551

L133 ANSWER 223 OF 558 MEDLINE on STN DUPLICATE 113
 TI Dolichol: function, metabolism, and accumulation in human tissues.
 SO BIOCHEMISTRY AND CELL BIOLOGY, (1992 Jun) 70 (6) 382-4. Ref: 28
 Journal code: 8606068. ISSN: 0829-8211.
 AU Carroll K K; Guthrie N; Ravi K
 AN 93080867 MEDLINE

L133 ANSWER 224 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Transfection of human endothelial cells with plasminogen activator
 inhibitor type-1 promoter/reporter gene fragments reveals phorbol ester
 induction of gene expression
 SO Fibrinolysis (1992), 6(4), 256-62
 CODEN: FBRIE7; ISSN: 0268-9499
 AU Descheemaeker, K. A.; Nelles, L.; Moreau, H.; Strandberg, L.; Ny, T.;
 Collen, Desire
 AN 1993:53501 HCAPLUS
 DN 118:53501

L133 ANSWER 225 OF 558 MEDLINE on STN DUPLICATE 114
 TI Fibric acid derivatives: effects on the **synthesis** of
isoprenoid lipids in cultured human lymphocytes.
 SO BIOCHIMICA ET BIOPHYSICA ACTA, (1992 Jul 29) 1127 (2) 168-73.
 Journal code: 0217513. ISSN: 0006-3002.
 AU Henry A; Allen C M; Stacpoole P W
 AN 92353119 MEDLINE

L133 ANSWER 226 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
 TI CHOLESTEROL-BIOSYNTHESIS AND METABOLISM
 SO CARDIOVASCULAR DRUGS AND THERAPY, (APR 1992) Vol. 6, No. 2, pp. 103-110.
 ISSN: 0920-3206.
 AU RUSSELL D W (Reprint)
 AN 92:320939 SCISEARCH

L133 ANSWER 227 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI C50 bicyclic **carotenoids**: Sarcinaxanthin **synthesis**
 SO Methods in Enzymology (1992), 213(Carotenoids, Pt. A), 75-86
 CODEN: MENZAU; ISSN: 0076-6879
 AU Ferezou, J. P.
 AN 1993:192043 HCAPLUS
 DN 118:192043

L133 ANSWER 228 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI THE ROLE OF INTERMEDIATE FILAMENTS IN THE FORMATION OF FIBROBLAST
 PROCESSES **INDUCED** BY THE TUMOR **PROMOTER**
 PHORBOL-12-MYRISTATE-13-**ACETATE** PMA IN FIBROBLASTS.
 SO Tsitologiya, (1992) Vol. 34, No. 2, pp. 18-22.
 CODEN: TSITAQ. ISSN: 0041-3771.
 AU BERSHADSKII A D [Reprint author]; IVANOVA O YU; LYASS L A; PLETYUSHKINA O
 YU; VASIL'EV YU M; GEL'FAND I M
 AN 1992:434534 BIOSIS

L133 ANSWER 229 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

DUPLICATE 115
 TI DIFLUFENICAN A **CAROTENOGENESIS** INHIBITOR ALSO REDUCES ACYL LIPID
SYNTHESIS.
 SO Pesticide Biochemistry and Physiology, (1992) Vol. 43, No. 1, pp. 14-21.
 CODEN: PCBPBS. ISSN: 0048-3575.
 AU ASHTON I P [Reprint author]; ABULNAJA K O; PALLETT K E; COLE D J; HARWOOD
 J L
 AN 1992:373062 BIOSIS

L133 ANSWER 230 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
 TI Compsn. for coating of multilayer paper-like material - contains
 film-forming polymer, achromatic pigment, dye, by-product from
isoprene rubber production and solvent.
 PI SU 1668515 A1 19910807 (199222)* 4p D21H019-66
 IN AKIM, E L; DAMASKINA, L N; RASSKAZOVA, N YA

L133 ANSWER 231 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
 TI Preparation of cycloalkenyl alkene(s) for **carotenoid
 synthesis** - by dehydrating e.g. pentadienyl tri methyl
 cyclohexanol derivs., in presence of alkali metal bromide etc..
 PI EP 454002 A 19911030 (199144)* 6p
 R: AT BE CH DE FR GB IT LI NL
 JP 04225952 A 19920814 (199239) 5p C07C403-12
 US 5155255 A 19921013 (199244) 5p C07C403-12
 EP 454002 A3 19920506 (199330) 6p
 EP 454002 B1 19950628 (199530) DE 8p C07C403-12
 R: AT BE CH DE DK FR GB IT LI NL
 DE 59105828 G 19950803 (199536) C07C403-12
 JP 2945504 B2 19990906 (199942) 6p C07C403-12
 IN MAZZUCHELL, M; SOUKUP, M; SPURR, P; STIRTT, C; MAZZUCHELLI, M; STRITT, C

L133 ANSWER 232 OF 558 MEDLINE on STN DUPLICATE 116
 TI Regulation of c-fos and c-jun protooncogene expression by the
 Ca(2+)-ATPase inhibitor thapsigargin.
 SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF
 AMERICA, (1991 Aug 15) 88 (16) 7096-100.
 Journal code: 7505876. ISSN: 0027-8424.
 AU Schonthal A; Sugarman J; Brown J H; Hanley M R; Feramisco J R
 AN 91334412 MEDLINE

L133 ANSWER 233 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
 TI REGULATION OF C-FOS AND C-JUN PROTOONCOGENE EXPRESSION BY THE CA2+-ATPASE
 INHIBITOR THAPSIGARGIN
 SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF
 AMERICA, (1991) Vol. 88, No. 16, pp. 7096-7100.
 AU SCHONTHAL A (Reprint); SUGARMAN J; BROWN J H; HANLEY M R; FERAMISCO J R
 AN 91:466535 SCISEARCH

L133 ANSWER 234 OF 558 LIFESCI COPYRIGHT 2004 CSA on STN
 TI Regulation of c-fos and c-jun protooncogene expression by the Ca
 super(2+)-ATPase inhibitor thapsigargin.
 SO PROC. NATL. ACAD. SCI. USA., (1991) vol. 88, no. 16, pp. 7096-7100.
 AU Schoenthal, A.; Sugarman, J.; Heller Brown, J.; Hanley, M.R.; Feramisco,
 J.R.
 AN 91:73482 LIFESCI

L133 ANSWER 235 OF 558 MEDLINE on STN DUPLICATE 117
 TI Role of multiple environmental stimuli in control of transcription from a
 nitrogen-**regulated promoter** in Escherichia coli with
 weak or no **activator**-binding sites.
 SO JOURNAL OF BACTERIOLOGY, (1991 Oct) 173 (20) 6355-63.
 Journal code: 2985120R. ISSN: 0021-9193.
 AU Schneider B L; Shiau S P; Reitzer L J
 AN 92011406 MEDLINE

L133 ANSWER 236 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 118
TI TUMOR-PROMOTING ACTIVITY OF ETHYL PHENYLPROPIOLATE
SO CANCER RESEARCH, (1991) Vol. 51, No. 20, pp. 5642-5648.
AU CAMERON G S (Reprint); BALDWIN J K; KLANN R C; PATRICK K E; FISCHER S M
AN 91:566095 SCISEARCH

L133 ANSWER 237 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
TI A NEW PRENYLATION METHOD USING THE LITHIUM ENOLATE OF PRENOL - REACTION WITH POLYUNSATURATED ALDEHYDES - A SHORT ACCESS TO RETINAL
SO TETRAHEDRON LETTERS, (1991) Vol. 32, No. 35, pp. 4499-4500.
AU DUHAMEL L (Reprint); GUILLEMONT J; POIRIER J M; CHABARDES P
AN 91:490978 SCISEARCH

L133 ANSWER 238 OF 558 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
TI A new prenylation method using the lithium enolate of prenol. Reaction with polyunsaturated aldehydes. A short access to retinal.
SO Tetrahedron Letters, (1991) 32/35 (4499-4500).
ISSN: 0040-4039 CODEN: TELEAY
AU Duhamel L.; Guillemont J.; Poierier J.-M.; Chabardes P.
AN 91265732 EMBASE

L133 ANSWER 239 OF 558 LIFESCI COPYRIGHT 2004 CSA on STN DUPLICATE 119
TI Regulatory elements involved in constitutive and phorbol ester-inducible expression of the plasminogen activator inhibitor type 2 gene promoter.
SO NUCLEIC ACIDS RES., (1991) vol. 19, no. 14, pp. 3881-3886.
AU Cousin, E.; Medcalf, R.L.; Bergonzelli, G.E.; Kruithof, E.K.O.
AN 91:32353 LIFESCI

L133 ANSWER 240 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
TI REGULATORY ELEMENTS INVOLVED IN CONSTITUTIVE AND PHORBOL ESTER-INDUCIBLE EXPRESSION OF THE PLASMINOGEN-ACTIVATOR INHIBITOR TYPE-2 GENE PROMOTER
SO NUCLEIC ACIDS RESEARCH, (1991) Vol. 19, No. 14, pp. 3881-3886.
AU COUSIN E (Reprint); MEDCALF R L; BERGONZELLI G E; KRUTHOF E K O
AN 91:436459 SCISEARCH

L133 ANSWER 241 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Stereospecific synthesis of the octaprenols WT3C4OH and WT3C3TOH
SO Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (1991), (10), 2333-8
CODEN: IASKA6; ISSN: 0002-3353
AU Grigor'eva, N. Ya.; Pinsker, O. A.; Moiseenkov, A. M.
AN 1992:59665 HCAPLUS
DN 116:59665

L133 ANSWER 242 OF 558 MEDLINE on STN DUPLICATE 120
TI Influence of a mutation in the putative nucleotide binding site of the nitrogen regulatory protein NTRC on its positive control function.
SO NUCLEIC ACIDS RESEARCH, (1991 May 11) 19 (9) 2281-7.
Journal code: 0411011. ISSN: 0305-1048.
AU Austin S; Kundrot C; Dixon R
AN 91252264 MEDLINE

L133 ANSWER 243 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
TI INFLUENCE OF A MUTATION IN THE PUTATIVE NUCLEOTIDE BINDING-SITE OF THE NITROGEN REGULATORY PROTEIN NTRC ON ITS POSITIVE CONTROL FUNCTION
SO NUCLEIC ACIDS RESEARCH, (1991) Vol. 19, No. 9, pp. 2281-2287.
AU AUSTIN S; KUNDROT C; DIXON R (Reprint)
AN 91:297327 SCISEARCH

L133 ANSWER 244 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 121
TI AN INVITRO TRANSCRIPTION ANALYSIS OF EARLY RESPONSES OF THE

HUMAN-IMMUNODEFICIENCY-VIRUS TYPE-1 LONG TERMINAL REPEAT TO DIFFERENT
TRANSCRIPTIONAL ACTIVATORS

SO MOLECULAR AND CELLULAR BIOLOGY, (1991) Vol. 11, No. 4, pp. 1883-1893.
AU LI Y C; ROSS J; SCHEPPLER J A; FRANZA B R (Reprint)
AN 91:163440 SCISEARCH

L133 ANSWER 245 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
122

TI THE HUMAN INTERFERON-GAMMA GENE CONTAINS AN INDUCIBLE PROMOTER THAT CAN BE
TRANSACTIVATED BY TAX-I AND TAX-II

SO EUROPEAN JOURNAL OF IMMUNOLOGY, (1991) Vol. 21, No. 8, pp. 1879-1885.
AU BROWN D A; NELSON F B; REINHERZ E L; DIAMOND D J (Reprint)
AN 91:462767 SCISEARCH

L133 ANSWER 246 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
123

TI A MEMBER OF THE SET OF KAPPA-B BINDING-PROTEINS, HIVEN86A, IS A PRODUCT OF
THE HUMAN C-REL PROTOONCOGENE

SO ONCOGENE, (1991) Vol. 6, No. 4, pp. 665-667.
AU LEE J H; LI Y C; DOERRE S; SISTA P; BALLARD D W; GREENE W C; FRANZA B R
(Reprint)
AN 91:358265 SCISEARCH

L133 ANSWER 247 OF 558 MEDLINE on STN DUPLICATE 124

TI Cell-cycle-dependent, differential prenylation of proteins.

SO EUROPEAN JOURNAL OF BIOCHEMISTRY, (1991 Sep 1) 200 (2) 579-90.
Journal code: 0107600. ISSN: 0014-2956.

AU Sepp-Lorenzino L; Rao S; Coleman P S
AN 91364711 MEDLINE

L133 ANSWER 248 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

TI CELL-CYCLE-DEPENDENT, DIFFERENTIAL PRENYLATION OF PROTEINS

SO EUROPEAN JOURNAL OF BIOCHEMISTRY, (1991) Vol. 200, No. 2, pp. 579-590.
AU SEPPLorenzino L; RAO S; COLEMAN P S (Reprint)
AN 91:485814 SCISEARCH

L133 ANSWER 249 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
125

TI AN INDUCIBLE GENE-EXPRESSION SYSTEM FOR NEUROSPORA-CRASSA

SO ENZYME AND MICROBIAL TECHNOLOGY, (1991) Vol. 13, No. 5, pp. 400-403.
AU COLLINS M E (Reprint); BRIGGS G; SAWYER C; SHEFFIELD P; CONNERTON I F
AN 91:242790 SCISEARCH

L133 ANSWER 250 OF 558 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN

TI **Astaxanthin production** by a green alga, Haematococcus
pluvialis accompanied with morphological changes in **acetate**
media;

potential application as pigment
SO J.Ferment.Bioeng.; (1991) 71, 5, 335-39
CODEN: JFBIEX

AU Kobayashi M; Kakizono T; *Nagai S
AN 1991-10000 BIOTECHDS

L133 ANSWER 251 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

TI **ASTAXANTHIN PRODUCTION** BY A GREEN-ALGA,
HAEMATOCOCCUS-PLUVIALIS ACCOMPANIED WITH MORPHOLOGICAL-CHANGES IN
ACETATE MEDIA

SO JOURNAL OF FERMENTATION AND BIOENGINEERING, (1991) Vol. 71, No. 5, pp.
335-339.

AU KOBAYASHI M; KAKIZONO T; NAGAI S (Reprint)
AN 91:319297 SCISEARCH

L133 ANSWER 252 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Culture of the **astaxanthin**-producing green alga Haematococcus

pluvialis. 1. Effects of nutrients on growth and cell type
 SO Journal of Applied Phycology (1991), 3(4), 295-304
 CODEN: JAPPEL; ISSN: 0921-8971
 AU Borowitzka, Michael A.; Huisman, John M.; Osborn, Ann
 AN 1992:147903 HCAPLUS
 DN 116:147903

L133 ANSWER 253 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI EVIDENCE FOR DIRECT ABA SYNTHESIS IN DUNALIELLA VOLVOCALES.
 SO Cryptogamic Botany, (1991) Vol. 2, No. 2-3, pp. 192-200.
 ISSN: 0935-2147.
 AU BOPP-BUHLER M-L [Reprint author]; WABRA P; HARTUNG W; GIMMLER H
 AN 1992:101188 BIOSIS

L133 ANSWER 254 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI CONTROL OF TRANSCRIPTION INITIATED FROM A **GLNAP2**
PROMOTER IN ESCHERICHIA-COLI WITHOUT UPSTREAM **ACTIVATOR**
 BINDING SITES.
 SO Abstracts of the General Meeting of the American Society for Microbiology,
 (1991) Vol. 91, pp. 164.
 Meeting Info.: 91ST GENERAL MEETING OF THE AMERICAN SOCIETY FOR
 MICROBIOLOGY 1991, DALLAS, TEXAS, USA, MAY 5-9, 1991. ABSTR GEN MEET AM
 SOC MICROBIOL.
 ISSN: 1060-2011.
 AU SCHNEIDER B [Reprint author]; SHIAU S-P; REITZER L
 AN 1991:381644 BIOSIS

L133 ANSWER 255 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
 TI Production of oxo-beta-ionone - by oxidation of beta-ionone enol-**acetate**
 with chromium oxide solution in sulphuric acid, in methylene chloride medium.
 PI SU 1544763 A 19900223 (199102)*
 IN MICROPOLSK, M A; SAMOKHVALO, G I; TUTORSKAYA, O O

L133 ANSWER 256 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI A DNA motif related to the cAMP-responsive element and an exon-located
 activator protein-2 binding site in the human tissue-type plasminogen
 activator gene promoter cooperate in basal expression and convey
 activation by phorbol ester and cAMP
 SO Journal of Biological Chemistry (1990), 265(24), 14618-26
 CODEN: JBCHA3; ISSN: 0021-9258
 AU Medcalf, Robert L.; Ruegg, Marlies; Schleuning, Wolf Dieter
 AN 1990:546572 HCAPLUS
 DN 113:146572

L133 ANSWER 257 OF 558 MEDLINE on STN DUPLICATE 127
 TI Incorporation of squalene into rod outer segments.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1990 Aug 15) 265 (23) 13709-12.
 Journal code: 2985121R. ISSN: 0021-9258.
 AU Keller R K; Fliesler S J
 AN 90337983 MEDLINE

L133 ANSWER 258 OF 558 MEDLINE on STN DUPLICATE 128
 TI Vitamin A metabolism in the human intestinal Caco-2 cell line.
 SO BIOCHEMISTRY, (1990 Dec 18) 29 (50) 11116-23.
 Journal code: 0370623. ISSN: 0006-2960.
 AU Quick T C; Ong D E
 AN 91105044 MEDLINE

L133 ANSWER 259 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Polyene **synthesis**. Ready construction of retinol-
carotene fragments, (\pm)-6(E)-LTB3 leukotrienes, and corticrocin
 SO Journal of Organic Chemistry (1990), 55(25), 6203-14
 CODEN: JOCEAH; ISSN: 0022-3263
 AU Wenkert, Ernest; Guo, Ming; Lavilla, Rodolfo; Porter, Barry; Ramachandran,

Kishore; Sheu, Jyh Horng
AN 1991:6061 HCAPLUS
DN 114:6061

L133 ANSWER 260 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 129
TI CYTOSKELETAL REORGANIZATIONS RESPONSIBLE FOR THE PHORBOL ESTER-INDUCED
FORMATION OF CYTOPLASMIC PROCESSES POSSIBLE INVOLVEMENT OF INTERMEDIATE
FILAMENTS.
SO Proceedings of the National Academy of Sciences of the United States of
America, (1990) Vol. 87, No. 5, pp. 1884-1888.
CODEN: PNASA6. ISSN: 0027-8424.
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L133 ANSWER 268 OF 558 LIFESCI COPYRIGHT 2004 CSA on STN DUPLICATE 135

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AN 86237832 EMBASE

L133 ANSWER 318 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
163
TI THE TUMOR **PROMOTER** PHORBOL 12-MYRISTATE 13-**ACETATE**
INDUCES A PROGRAM OF ALTERED GENE-EXPRESSION SIMILAR TO THAT
INDUCED BY PLATELET-DERIVED GROWTH-FACTOR AND TRANSFORMING ONCOGENES
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF
AMERICA, (1986) Vol. 83, No. 2, pp. 357-360.
AU RABIN M S (Reprint); DOHERTY P J; GOTTESMAN M M
AN 86:58224 SCISEARCH

L133 ANSWER 319 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 164
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MOUSE SKIN.
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CODEN: JIDEAE. ISSN: 0022-202X.
AU KUMAR R [Reprint author]; HOLIAN O
AN 1986:455420 BIOSIS

L133 ANSWER 320 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Telomerization of **isoprene** with geranyl chloride and
synthesis of E,E-farnesyl **acetate**
SO Eesti NSV Teaduste Akadeemia Toimetised, Keemia (1986), 35(4), 269-74
CODEN: ENTKDR; ISSN: 0201-8128
AU Siirde, K.; Erm, A.; Valimae, T.; Muks, E.; Loiveke, I.; Laats, K.
AN 1988:22058 HCAPLUS
DN 108:22058

L133 ANSWER 321 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI ACID-CATALYZED CONDENSATION OF **ISOPRENE** WITH BETA ORCINALDEHYDE
SYNTHESIS OF 2 2 DIMETHYLFORMYLCHROMANS AND SYNTHESIS OF 5
METHYLBXANTHYLETIN AND SESELIN DERIVATIVES.
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Medicinal Chemistry, (1986) Vol. 25, No. 1, pp. 51-55.
CODEN: IJSBDB. ISSN: 0376-4699.
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AN 1986:216991 BIOSIS

L133 ANSWER 322 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
TI New cyclohexenyl alkenyl carboxylic acid - mfd. by reacting retinol or
retinyl **acetate** in presence of tri phenyl phosphine and aqueous
hydrogen halide, then reacting with glyoxylic acid.
PI JP 60231650 A 19851118 (198601)* 5p
JP 04025949 B 19920506 (199222) 5p C07C403-20

L133 ANSWER 323 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 165
TI TRANSIT OF RECEPTORS FOR EPIDERMAL GROWTH FACTOR AND TRANSFERRIN THROUGH
CLATHRIN-COATED PITS ANALYSIS OF THE KINETICS OF RECEPTOR ENTRY.

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AN 1986:141400 BIOSIS

L133 ANSWER 324 OF 558 MEDLINE on STN DUPLICATE 166
TI Transcription of glnA by purified Escherichia coli components: core RNA polymerase and the products of glnF, glnG, and glnL.
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AN 86094244 MEDLINE

L133 ANSWER 325 OF 558 MEDLINE on STN DUPLICATE 167
TI Expression of glnA in Escherichia coli is **regulated** at tandem **promoters**.
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1985 Apr) 82 (7) 1979-83.
Journal code: 7505876. ISSN: 0027-8424.
AU Reitzer L J; Magasanik B
AN 85166256 MEDLINE

L133 ANSWER 326 OF 558 MEDLINE on STN DUPLICATE 168
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SO JOURNAL OF CLINICAL INVESTIGATION, (1985 Nov) 76 (5) 1748-54.
Journal code: 7802877. ISSN: 0021-9738.
AU Maltese W A; Defendini R; Green R A; Sheridan K M; Donley D K
AN 86034626 MEDLINE

L133 ANSWER 327 OF 558 LIFESCI COPYRIGHT 2004 CSA on STN DUPLICATE 169
TI Tumor **promoter** phorbol-12-myristate-13-**acetate** **induces** poly(ADP)-ribosylation in fibroblasts.
SO EMBO J., (1985) vol. 4, no. 6, pp. 1491-1494.
AU Singh, N.; Poirier, G.; Cerutti, P.
AN 85:23687 LIFESCI

L133 ANSWER 328 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
TI TUMOR **PROMOTER** PHORBOL-12-MYRISTATE-13-**ACETATE** **INDUCES** POLY(ADP)-RIBOSYLATION IN FIBROBLASTS
SO EMBO JOURNAL, (1985) Vol. 4, No. 6, pp. 1491-1494.
AU SINGH N (Reprint); POIRIER G; CERUTTI P
AN 85:379140 SCISEARCH

L133 ANSWER 329 OF 558 LIFESCI COPYRIGHT 2004 CSA on STN DUPLICATE 170
TI Tumor **promoter** phorbol-12-myristate-13-**acetate** **induces** poly ADP-ribosylation in human monocytes.
SO BIOCHEM. BIOPHYS. RES. COMMUN., (1985) vol. 126, no. 3, pp. 1208-1214.
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AN 85:7334 LIFESCI

L133 ANSWER 330 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
TI TUMOR **PROMOTER** PHORBOL-12-MYRISTATE-13-**ACETATE** **INDUCES** POLY ADP-RIBOSYLATION IN HUMAN-MONOCYTES
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1985) Vol. 126, No. 3, pp. 1208-1214.
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AN 85:122332 SCISEARCH

L133 ANSWER 331 OF 558 MEDLINE on STN DUPLICATE 171
TI Differentiation of neuroblastoma cells induced by an inhibitor of mevalonate synthesis: relation of neurite outgrowth and acetylcholinesterase activity to changes in cell proliferation and blocked

isoprenoid synthesis.

SO JOURNAL OF CELLULAR PHYSIOLOGY, (1985 Dec) 125 (3) 540-58.

Journal code: 0050222. ISSN: 0021-9541.

AU Maltese W A; Sheridan K M

AN 86059719 MEDLINE

L133 ANSWER 332 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 172

TI TUMOR **PROMOTER** PHORBOL 12-MYRISTATE, 13-**ACETATE**
INHIBITS PHOSPHOINOSITIDE HYDROLYSIS AND CYTOSOLIC CA-2& RISE
INDUCED BY THE ACTIVATION OF MUSCARINIC RECEPTORS IN PC12 CELLS

SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1985) Vol. 127, No. 1, pp. 310-317.

AU VICENTINI L M (Reprint); DIVIRGILIO F; AMBROSINI A; POZZAN T; MELDOLESI J

AN 85:140931 SCISEARCH

L133 ANSWER 333 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

TI PHORBOL-12-MYRISTATE-13-ACETATE INDUCES ENDOCYTOSIS AS WELL AS EXOCYTOSIS
AND HYDROOSMOSIS IN TOAD BUFO-MARINUS URINARY BLADDER.

SO Biochimica et Biophysica Acta, (1985) Vol. 821, No. 2, pp. 286-296.

CODEN: BBACAQ. ISSN: 0006-3002.

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L133 ANSWER 334 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Retinoic acid: antagonist of tumor promoter-induced fibronectin release

SO Retinoids: New Trends Res. Ther., Retinoid Symp. (1985), Meeting Date
1984, 125-8. Editor(s): Saurat, Jean-Hilaire. Publisher: Karger, Basel,
Switz.

CODEN: 55ANA3

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AN 1986:223994 HCAPLUS

DN 104:223994

L133 ANSWER 335 OF 558 MEDLINE on STN DUPLICATE 173

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by phenol precursors of the benzoquinone ring of ubiquinone].
Tormozhenie sinteza izoprenoidnykh soedinenii fenol'nyimi
predshestvennikami benzokhinonovogo kol'tsa ubikhinona.

SO VOPROSY MEDITSINSKOI KHIMII, (1985 Sep-Oct) 31 (5) 121-3.

Journal code: 0416601. ISSN: 0042-8809.

AU Fedurov V V

AN 86124850 MEDLINE

L133 ANSWER 336 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Studies on tumor promotion and apparent tumor stages in the liver

SO BGA Schriften (1985), (6, Tumorpromotoren), 108-22

CODEN: BGASEB; ISSN: 0932-2361

AU Schulte-Hermann, R.

AN 1986:437280 HCAPLUS

DN 105:37280

L133 ANSWER 337 OF 558 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS
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TI Induction of ornithine decarboxylase in guinea-pig lymphocytes.
Synergistic effect of diacylglycerol and calcium.

SO European Journal of Biochemistry, (1985) 147/1 (27-31).

CODEN: EJBCAI

AU Otani S.; Matsui I.; Kuramoto A.; Morisawa S.

AN 85077496 EMBASE

L133 ANSWER 338 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

TI 4-Oxo-beta ionone production by oxidation of retro ionone - with oxygen, useful
as intermediate in **carotenoid synthesis**.

PI EP 101811 A 19840307 (198411)* DE 12p
R: AT BE CH DE FR GB IT LI NL
JP 59029660 A 19840216 (198413)
DK 8303217 A 19840312 (198417)
EP 101811 B 19850918 (198538) EN
R: AT BE CH DE FR GB IT LI NL
DE 3360840 G 19851024 (198544)
JP 03007665 B 19910204 (199109)
IN LOHRI, B

L133 ANSWER 339 OF 558 LIFESCI COPYRIGHT 2004 CSA on STN DUPLICATE 175
TI Continuous suppression of globin gene expression and differentiation of
Friend erythroleukemia cells by phorbol 12-myristate 13-acetate (PMA)
despite the loss of PMA binding sites by down regulation.
SO PROC. NATL. ACAD. SCI. USA., (1984) vol. 81, no. 7, pp. 2075-2079.
AU Yamasaki, H.; Martel, N.; Fusco, A.; Ostertag, W.
AN 84:43511 LIFESCI

L133 ANSWER 340 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI On the role of superoxide anion radicals in skin tumor promotion
SO Carcinogenesis (1984), 5(12), 1663-70
CODEN: CRNGDP; ISSN: 0143-3334
AU Schwarz, Michael; Peres, Gabriele; Kunz, Werner; Fuerstenberger, Gerhard;
Kittstein, Walter; Marks, Friedrich
AN 1985:126975 HCAPLUS
DN 102:126975

L133 ANSWER 341 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Synthesis** and bioassay of **isoprenoid**
3-alkylthio-1,1,1-trifluoro-2-propanones: potent, selective inhibitors of
juvenile hormone esterase
SO Archives of Biochemistry and Biophysics (1984), 228(2), 639-45
CODEN: ABBIA4; ISSN: 0003-9861
AU Prestwich, Glenn D.; Eng, Wai Si; Roe, R. Michael; Hammock, Bruce D.
AN 1984:81189 HCAPLUS
DN 100:81189

L133 ANSWER 342 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
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PARTHENIUM-ARGENTATUM EXPOSED TO LOW NONFREEZING TEMPERATURES.
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CODEN: PLPHAY. ISSN: 0032-0889.
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STIPANOVIC R D
AN 1984:294272 BIOSIS

L133 ANSWER 343 OF 558 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS
RESERVED. on STN DUPLICATE 176
TI Differentiation of human myeloid leukemic cells by phorbol esters:
Correlation with tumor promotion.
SO International Journal of Cancer, (1984) 34/4 (451-457).
CODEN: IJCNAW
AU Fibach E.; Agranat I.; Rachmilewitz E.A.
AN 84238952 EMBASE

L133 ANSWER 344 OF 558 MEDLINE on STN DUPLICATE 177
TI Characterization of mutations that lie in the **promoter-**
regulatory region for glnA, the structural gene encoding glutamine
synthetase.
SO MOLECULAR AND GENERAL GENETICS, (1984) 197 (1) 150-60.
Journal code: 0125036. ISSN: 0026-8925.
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AN 85085549 MEDLINE

L133 ANSWER 345 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Total synthesis of 3,4,3',4'-tetrahydro- β,β - **carotene**
 -2,2'-dione
 SO Acta Chemica Scandinavica, Series B: Organic Chemistry and Biochemistry
 (1984), B38(1), 43-7
 CODEN: ACBOCV; ISSN: 0302-4369
 AU Aareskjold, Kaare; Liaaen-Jensen, Synnoeve
 AN 1984:472975 HCAPLUS
 DN 101:72975

L133 ANSWER 346 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI RAPID PROTEIN PHOSPHORYLATION INDUCED BY PHORBOL ESTER IN HL-60 CELLS
 UNIQUE ALKALI STABLE PHOSPHORYLATION OF A 17000 DALTON PROTEIN DETECTED BY
 2 DIMENSIONAL GEL ELECTROPHORESIS.
 SO Journal of Biological Chemistry, (1983) Vol. 258, No. 17, pp. 10786-10793.
 CODEN: JBCHA3. ISSN: 0021-9258.
 AU FEUERSTEIN N [Reprint author]; COOPER H L
 AN 1984:235795 BIOSIS

L133 ANSWER 347 OF 558 MEDLINE on STN DUPLICATE 178
 TI **Isoprene synthesis** in isolated embryonic Drosophila
 cells. I. Sterol-deficient eukaryotic cells.
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 Journal code: 2985121R. ISSN: 0021-9258.
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L133 ANSWER 348 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
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 ACETATE OR BY SERUM IS INHIBITED BY ANTI OXIDANTS.
 SO Carcinogenesis (Oxford), (1983) Vol. 4, No. 11, pp. 1425-1428.
 CODEN: CRNGDP. ISSN: 0143-3334.
 AU FRIEDMAN J [Reprint author]; CERUTTI P
 AN 1984:275939 BIOSIS

L133 ANSWER 349 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
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 MIXED HUMAN LEUKOCYTE CULTURES.
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 CODEN: CRNGDP. ISSN: 0143-3334.
 AU EMERIT I [Reprint author]; CERUTTI P
 AN 1984:268157 BIOSIS

L133 ANSWER 350 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
 179
 TI TUMOR **PROMOTER** PHORBOL-12-MYRISTATE-13-**ACETATE** (TPA)
INDUCING THE PROTEIN IN HUMAN-LYMPHOCYTES WHICH BINDS SATELLITE
 DNA
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 AU SVETLOVA M P (Reprint); FEDORTSEVA R F; TOMILIN N V
 AN 83:376747 SCISEARCH

L133 ANSWER 351 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
 TI CONTROL OF ENDOGENOUS CELL **REGULATORS** BY THE 2ND-STAGE TUMOR
PROMOTER PHORBOL-12-RETINOATE 13-**ACETATE**
 SO INTERNATIONAL JOURNAL OF CANCER, (1983) Vol. 31, No. 4, pp. 497-500.
 AU SIMANTOV R (Reprint); MARKS F; FURSTENBERGER G; SACHS L
 AN 83:200966 SCISEARCH

L133 ANSWER 352 OF 558 LIFESCI COPYRIGHT 2004 CSA on STN DUPLICATE 180
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 Synechococcus PCC 6911 (Cyanobacteria).
 SO Z. NATURFORSCH., SER. C., (1983) vol. 38C, no. 5-6, pp. 387-392.
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AN 83:34106 LIFESCI

L133 ANSWER 353 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

TI SUPPRESSION OF TUMOR **PROMOTER** PHORBOLMYRISTATE **ACETATE**
-**INDUCED** CHROMOSOME BREAKAGE BY ANTI-OXIDANT AND INHIBITORS OF
ARACHIDONIC-ACID METABOLISM

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AN 83:424541 SCISEARCH

L133 ANSWER 354 OF 558 LIFESCI COPYRIGHT 2004 CSA on STN DUPLICATE 181

TI Agents that increase cellular cAMP inhibit production of interleukin-2,
but not its activity.

SO BIOCHEM. BIOPHYS. RES. COMMUN., (1983) vol. 114, no. 1, pp. 93-98.

AU Novogrodsky, A.; Patya, M.; Rubin, A.L.; Stenzel, K.H.

AN 83:32528 LIFESCI

L133 ANSWER 355 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Epstein-Barr virus activation by tung oil, extracts of Aleurites fordii
and its diterpene ester 12-O-hexadecanoyl-16-hydroxyphorbol 13-acetate

SO Cancer Letters (Shannon, Ireland) (1983), 18(1), 87-95

CODEN: CALEDQ; ISSN: 0304-3835

AU Ito, Yohei; Yanase, Sugio; Tokuda, Harukuni; Kishishita, Masamichi;
Ohigashi, Hajime; Hirota, Mitsuru; Koshimizu, Koich

AN 1983:193098 HCAPLUS

DN 98:193098

L133 ANSWER 356 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

TI Production of grafted copolymers as modifiers for **isoprene** rubber --
by reaction of polyvinyl alcohol and epsilon-caprolactam in presence of
lead **acetate**.

PI SU 969703 A 19821101 (198335)* 5p

IN KHITRIN, S V; SPASSKAYA, R I; ZILBERMAN, E N

L133 ANSWER 357 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

TI THE TUMOR **PROMOTER** PHORBOL 12 MYRISTATE 13 **ACETATE**
INDUCES CHROMOSOMAL ABERRATIONS IN HUMAN LYMPHOCYTES VIA INDIRECT
ACTION.

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AND P. A. CERUTTI (ED.). UCLA (UNIVERSITY OF CALIFORNIA LOS ANGELES)
SYMPOSIA ON MOLECULAR AND CELLULAR BIOLOGY NEW SERIES, VOL. 2. MECHANISMS
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22-MARCH 1, 1981. XIX+581P. ALAN R. LISS, INC.: NEW YORK, N.Y., USA.
ILLUS.

Publisher: Series: UCLA (University of California Los Angeles) Symposia on
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CODEN: USMBD6. ISSN: 0735-9543. ISBN: 0-8451-2601-6.

AU EMERIT I [Reprint author]; CERUTTI P

AN 1983:96834 BIOSIS

L133 ANSWER 358 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

TI TUMOR **PROMOTER** PHORBOL 12-MYRISTATE 13-**ACETATE**
INDUCES A CLASTOGENIC FACTOR IN HUMAN-LYMPHOCYTES

SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF
AMERICA-BIOLOGICAL SCIENCES, (1982) Vol. 79, No. 23, pp. 7509-7513.

AU EMERIT I (Reprint); CERUTTI P A

AN 82:594992 SCISEARCH

L133 ANSWER 359 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

TI TUMOR **PROMOTER** PHORBOL 12 MYRISTATE 13 **ACETATE**
INDUCES A CLASTOGENIC FACTOR IN HUMAN LYMPHOCYTES.

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America, (1982) Vol. 79, No. 23, pp. 7509-7513.

CODEN: PNASA6. ISSN: 0027-8424.

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AN 1983:269838 BIOSIS

L133 ANSWER 360 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 182

TI THE MECHANISM OF ACTION OF A CHLOROSIS INDUCING TOXIN PRODUCED BY
PSEUDOMONAS-PHASEOLICOLA.

SO Plant Physiology (Rockville), (1982) Vol. 70, No. 4, pp. 932-938.
CODEN: PLPHAY. ISSN: 0032-0889.

AU SMITH A G [Reprint author]; RUBERY P H
AN 1983:264025 BIOSIS

L133 ANSWER 361 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 183

TI THE CONTROL OF PHOSPHO LIPID METHYLATION BY PHORBOL DI ESTERS IN
DIFFERENTIATING HUMAN MYELOID HL-60 LEUKEMIA CELLS.

SO Carcinogenesis (Oxford), (1982) Vol. 3, No. 8, pp. 875-880.
CODEN: CRNGDP. ISSN: 0143-3334.

AU HOFFMAN D R [Reprint author]; HUBERMAN E
AN 1983:262070 BIOSIS

L133 ANSWER 362 OF 558 MEDLINE on STN DUPLICATE 184

TI Nutrition and carbon metabolism of Methanococcus voltae.

SO JOURNAL OF BACTERIOLOGY, (1982 Mar) 149 (3) 852-63.
Journal code: 2985120R. ISSN: 0021-9193.

AU Whitman W B; Ankwarda E; Wolfe R S
AN 82142141 MEDLINE

L133 ANSWER 363 OF 558 MEDLINE on STN DUPLICATE 185

TI Thylakoid membrane biogenesis in Chlamydomonas reinhardtii 137+. II.
Cell-cycle variations in the synthesis and assembly of pigment.

SO JOURNAL OF CELL BIOLOGY, (1982 May) 93 (2) 411-6.
Journal code: 0375356. ISSN: 0021-9525.

AU Janero D R; Barrnett R
AN 82239545 MEDLINE

L133 ANSWER 364 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Modulation by indomethacin, prostaglandins and retinyl acetate of rat
liver ornithine decarboxylase activity induced by tumor promoters in vivo

SO Prostaglandins and Related Lipids (1982), 2, 273-80
CODEN: PRLIDS; ISSN: 0275-3618

AU Bisschop, Arnold; Van Rooijen, Lucio A. A.
AN 1982:418414 HCAPLUS
DN 97:18414

L133 ANSWER 365 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Activity of several enzymes of a **carotene**- and
macrotetrolide-producing actinomycete

SO Mikrobiologiya (1982), 51(2), 202-5
CODEN: MIKBA5; ISSN: 0026-3656

AU Nefelova, M. V.; Sverdlova, A. N.
AN 1982:213949 HCAPLUS
DN 96:213949

L133 ANSWER 366 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

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LYMPHOCYTE RESPONSES.

SO Journal of Immunology, (1982) Vol. 129, No. 1, pp. 91-96.
CODEN: JOIMA3. ISSN: 0022-1767.

AU ANDREOTTI P E [Reprint author]
AN 1983:169728 BIOSIS

L133 ANSWER 367 OF 558 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS
RESERVED. on STN DUPLICATE 186

TI Transformation-sensitive protein with molecular weight of 45,000 secreted by mouse fibroblasts.
 SO Cancer Research, (1981) 41/9 I (3648-3652).
 CODEN: CNREA8
 AU Tarone G.; Ceschi P.; Prat M.; Comoglio P.M.
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L133 ANSWER 368 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 DUPLICATE 187
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 INTERFERON CHOLERA TOXIN AND RETINOIC-ACID.
 SO Journal of Immunology, (1981) Vol. 126, No. 6, pp. 2129-2135.
 CODEN: JOIMA3. ISSN: 0022-1767.
 AU GOLDFARB R H [Reprint author]; HERBERMAN R B
 AN 1981:275688 BIOSIS

L133 ANSWER 369 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Stereoselective synthesis of solanesol and all-trans-decaprenol
 SO Journal of the Chemical Society, Perkin Transactions 1: Organic and
 Bio-Organic Chemistry (1972-1999) (1981), (3), 761-9
 CODEN: JCPRB4; ISSN: 0300-922X
 AU Sato, Kikumasa; Inoue, Seiichi; Onishi, Akira; Uchida, Nobuhiko; Minowa,
 Nobuto
 AN 1981:569537 HCAPLUS
 DN 95:169537

L133 ANSWER 370 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
 TI TUMOR **PROMOTER** PHORBOL-12-MYRISTATE-13-**ACETATE**
INDUCES CHROMOSOMAL DAMAGE VIA INDIRECT ACTION
 SO NATURE, (1981) Vol. 293, No. 5828, pp. 144-146.
 AU EMERIT I (Reprint); CERUTTI P A
 AN 81:409795 SCISEARCH

L133 ANSWER 371 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI TUMOR **PROMOTER** PHORBOL 12 MYRISTATE 13 **ACETATE**
INDUCES CHROMOSOMAL DAMAGE VIA INDIRECT ACTION.
 SO Nature (London), (1981) Vol. 293, No. 5828, pp. 144-146.
 CODEN: NATUAS. ISSN: 0028-0836.
 AU EMERIT I [Reprint author]; CERUTTI P A
 AN 1982:61720 BIOSIS

L133 ANSWER 372 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Studies on chloroplast autonomy in terpenoid biosynthesis
 SO Berichte der Deutschen Botanischen Gesellschaft (1981), 94(1-2), 121-6
 CODEN: BEDBAP; ISSN: 0365-9631
 AU Grumbach, K. H.
 AN 1981:600627 HCAPLUS
 DN 95:200627

L133 ANSWER 373 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
 TI Adhesive for paper or polymer film **production** - from butadiene
 -styrene and **isoprene** , rubber mixture, colophony ester,
 chlorinated-polyethylene and paraffin aerosil and organic solvent.
 PI SU 775115 B 19801030 (198129)*
 IN DUBOVITSKI, V K; LAVRINCHUK, L I; POTIEVSKAY, S A

L133 ANSWER 374 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI THE BIOCHEMISTRY OF PLANTS A COMPREHENSIVE TREATISE VOL. 4. LIPIDS
 STRUCTURE AND FUNCTION.
 SO (1980) pp. XV+693P. STUMPF, P. K. (ED.). THE BIOCHEMISTRY OF PLANTS: A
 COMPREHENSIVE TREATISE, VOL. 4. LIPIDS: STRUCTURE AND FUNCTION. XV+693P.
 ACADEMIC PRESS, INC.: NEW YORK, N.Y., USA; LONDON, ENGLAND. ILLUS.
 ISBN: 0-12-675404-7.
 AU STUMPF P K [Reprint author]

AN 1981:73954 BIOSIS

L133 ANSWER 375 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI PURIFICATION OF PLASMINOGEN ACTIVATOR FROM ROUS SARCOMA VIRUS TRANSFORMED
CHICK EMBRYO FIBROBLASTS TREATED WITH THE TUMOR PROMOTER PHORBOL 12
MYRISTATE 13 ACETATE.
SO Biochemistry, (1980) Vol. 19, No. 24, pp. 5463-5471.
CODEN: BICHAW. ISSN: 0006-2960.
AU GOLDFARB R H [Reprint author]; QUIGLEY J P
AN 1981:190805 BIOSIS

L133 ANSWER 376 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 188
TI **SYNTHESIS** OF OPTICALLY ACTIVE NATURAL **CAROTENOIDS** AND
STRUCTURALLY RELATED COMPOUNDS 6. **SYNTHESIS** OF PICO CROCIN.
SO Helvetica Chimica Acta, (1980) Vol. 63, No. 6, pp. 1463-1466.
CODEN: HCACAV. ISSN: 0018-019X.
AU MAYER H [Reprint author]; SANTER J-M
AN 1981:185187 BIOSIS

L133 ANSWER 377 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI RAPID ALTERATION IN CALCIUM CONTENT AND FLUXES IN PHORBOL 12 MYRISTATE 13
ACETATE TREATED MYO BLASTS.
SO Biochemical and Biophysical Research Communications, (1980) Vol. 92, No.
2, pp. 624-630.
CODEN: BBRCA9. ISSN: 0006-291X.
AU SCHIMMEL S D [Reprint author]; HALLAM T
AN 1980:197835 BIOSIS

L133 ANSWER 378 OF 558 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS
RESERVED. on STN
TI A comparison of transition metal and non-transition metal oligomerizations
of **isoprene** for the **synthesis** of terpenes.
SO Annals of the New York Academy of Sciences, (1980) VOL. 333/- (286-301).
CODEN: ANYAA
AU Chalk A.J.; Magennis S.A.
AN 81067868 EMBASE

L133 ANSWER 379 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Use of the reverse osmosis method for purifying **isoprene**
production wastewater
SO Khimicheskaya Promyshlennost (Moscow, Russian Federation) (1980), (2),
124-5
CODEN: KPRMAW; ISSN: 0023-110X
AU Galutkina, K. A.; Nemchenko, A. G.; Apostolova, I. V.; Karazeeva, L. N.
AN 1980:573093 HCAPLUS
DN 93:173093

L133 ANSWER 380 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI E-4-Acetoxy-2-methyl-2-butenal
SO U.S., 6 pp.
CODEN: USXXAM
IN Babler, James H.
AN 1980:93898 HCAPLUS
DN 92:93898

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	US 4175204	A	19791120	US 1979-1075	19790108
	WO 7900485	A1	19790726	WO 1979-US28	19790116
	W: CH, DE, GB, JP, SE				
	RW: CH, DE, FR, GB				
	EP 8581	A1	19800305	EP 1979-900203	19790116
	R: CH, DE, FR, GB				

L133 ANSWER 381 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Photopolymerizable compositions and photosensitive elements containing them
 SO Belg., 35 pp.
 CODEN: BEXXAL
 IN Okai, Sakuo; Kimoto, Koichi
 AN 1980:458254 HCAPLUS
 DN 93:58254

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	BE 878716	A1	19791231	BE 1979-197095	19790911
	NO 7902905	A	19800312	NO 1979-2905	19790907
	AU 7950673	A1	19800320	AU 1979-50673	19790907
	AU 527450	B2	19830303		
	IL 58204	A1	19830223	IL 1979-58204	19790907
	ZA 7904783	A	19800924	ZA 1979-4783	19790910
	NL 7906776	A	19800313	NL 1979-6776	19790911
	IN 152081	A	19831015	IN 1979-CA1002	19790924

L133 ANSWER 382 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI **Synthesis** of compounds containing the **isoprene** unit.
 A new stereoselective **synthesis** of all-trans vitamin A and of methyl (2E,4E)-3,7,11-trimethyldodeca-2,4-dienoate
 SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1979), (7), 1729-33
 CODEN: JCPRB4; ISSN: 0300-922X
 AU Cardillo, Giuliana; Contento, Michele; Sandri, Sergio; Panunzio, Mauro
 AN 1980:94599 HCAPLUS
 DN 92:94599

L133 ANSWER 383 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Evidence for the existence of two β - **carotene** pools and two biosynthetic β - **carotene** pathways in the chloroplast
 SO Zeitschrift fuer Naturforschung, C: Journal of Biosciences (1979), 34C(12), 1205-8
 CODEN: ZNCBDA; ISSN: 0341-0382
 AU Grumbach, K. H.
 AN 1980:107386 HCAPLUS
 DN 92:107386

L133 ANSWER 384 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI The effect of PS II herbicides, amitrol and SAN 6706 on the activity of 3-hydroxy-3-methylglutaryl-coenzyme-A-reductase and the incorporation of [2-14C]-**acetate** and [2-3H]-mevalonate into chloroplast pigments of radish seedlings
 SO Zeitschrift fuer Naturforschung, C: Journal of Biosciences (1979), 34C(11), 941-3
 CODEN: ZNCBDA; ISSN: 0341-0382
 AU Grumbach, K. H.; Bach, T. J.
 AN 1980:19002 HCAPLUS
 DN 92:19002

L133 ANSWER 385 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Effect of organic substrates on chlorophyll and **carotenoid production** of Anabaena sp. under light and dark conditions
 SO Journal of the Indian Botanical Society (1979), 58(4), 358-62
 CODEN: JIBSAC; ISSN: 0019-4468
 AU Sahu, J. K.; Adhikary, S. P.; Pattnaik, H.
 AN 1981:27160 HCAPLUS
 DN 94:27160

L133 ANSWER 386 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI The role of retinol in the initiation of sporangioophores of Phycomyces blakesleeanus

SO Planta (1979), 146(3), 257-62
CODEN: PLANAB; ISSN: 0032-0935
AU Galland, P.; Russo, V. E. A.
AN 1979:554387 HCAPLUS
DN 91:154387

L133 ANSWER 387 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Biosynthesis of **carotene** by the yeast *Sporobolomyces pararoseus*
T during cultivation on peat oxidate
SO Prikladnaya Biokhimiya i Mikrobiologiya (1979), 15(2), 222-6
CODEN: PBMIK; ISSN: 0555-1099
AU Koroleva, I. F.; Zalashko, M. V.; Demina, S. G.; Kosonogova, L. V.;
Evdokimova, G. A.
AN 1979:402302 HCAPLUS
DN 91:2302

L133 ANSWER 388 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 189
TI **CAROTENOID AND STEROID SYNTHESSES** BY CARROT CELLS IN
SUSPENSION CULTURE.
SO Physiologia Plantarum, (1979) Vol. 46, No. 2, pp. 127-132.
CODEN: PHPLAI. ISSN: 0031-9317.
AU SHIMIZU K [Reprint author]; KIKUCHI T; SUGANO N; NISHI A
AN 1979:260872 BIOSIS

L133 ANSWER 389 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Selection of a nutrient medium for the production of *Rhodotorula gracilis*
K-1 with vitamin A activity
SO Izvestiya Akademii Nauk Moldavskoi SSR, Biologicheskie i Khimicheskie
Nauki (1979), (3), 56-60
CODEN: IMBKB6; ISSN: 0568-5192
AU Atamanyuk, D. I.; Borisova, T. A.; Tsygulya, T. E.; Garkavenko, A. I.
AN 1979:522112 HCAPLUS
DN 91:122112

L133 ANSWER 390 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI INDUCTION OF PLASMINOGEN ACTIVATOR IN CULTURED CELLS BY MACRO CYCLIC PLANT
DI TERPENE ESTERS AND OTHER AGENTS RELATED TO TUMOR PROMOTION.
SO Cancer Research, (1978) Vol. 38, No. 5, pp. 1434-1437.
CODEN: CNREA8. ISSN: 0008-5472.
AU WIGLER M [Reprint author]; DEFEO D; WEINSTEIN I B
AN 1978:234524 BIOSIS

L133 ANSWER 391 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Metal-assisted terpenoid **synthesis**. V. The catalytic
trimerization of **isoprene** to trans- β -farnesene and its
synthetic applications for terpenoids
SO Bulletin of the Chemical Society of Japan (1978), 51(4), 1158-62
CODEN: BCSJA8; ISSN: 0009-2673
AU Akutagawa, Susumu; Taketomi, Takanao; Kumobayashi, Hidenori; Takayama,
Kiyoshi; Someya, Taichi; Otsuka, Sei
AN 1978:443834 HCAPLUS
DN 89:43834

L133 ANSWER 392 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Identification of oxygen-containing organic substances from
chromatographic spectra
SO Zhurnal Analiticheskoi Khimii (1978), 33(4), 775-81
CODEN: ZAKHA8; ISSN: 0044-4502
AU Vigdergauz, M. S.; Gizzatullin, R. R.; Tukmanov, R. G.; Fedin, Yu. I.;
Kiyanenko, G. V.
AN 1978:484360 HCAPLUS
DN 89:84360

L133 ANSWER 393 OF 558 MEDLINE on STN
 TI [Effect of organic acids on the biosynthesis of macrotetralide antibiotics by an Actinomyces chrysomallus var. **carotenoides** strain].
 Vliianie organicheskikh kislot na biosintez **makrotetralidnykh** antibiotikov shtammom Actinomyces chrysomallus var. **carotenoides**

SO ANTIBIOTIKI, (1978 Jul) 23 (7) 586-90.
 Journal code: 0375020. ISSN: 0003-5637.
 AU Nefelova M V; Sverdlova A N; Silaev A B
 AN 78234086 MEDLINE

L133 ANSWER 394 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Effect of organic acids on the biosynthesis of **carotenes** by Actinomyces chrysomallus strains
 SO Mikrobiologiya (1978), 47(2), 208-11
 CODEN: MIKBA5; ISSN: 0026-3656
 AU Nefelova, M. V.; Sverdlova, A. N.; Alekseeva, L. N.
 AN 1978:419961 HCAPLUS
 DN 89:19961

L133 ANSWER 395 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
 TI Water soluble vinyl -**acetate** copolymer for fibres **prodn**
 . - by copolymerisation with **isoprene** in presence of initiator.
 PI SU 567729 A 19770831 (197824)*
 IN GABRIELIAN, G A; PAKHOMOVA, A S; ROGOVIN, Z A

L133 ANSWER 396 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
 TI Symmetrical **carotenoids production** - by reacting ylid cpds. with peroxy acids or their salts or esters.
 PI DE 2702633 A 19770728 (197731)*
 DE 2702633 C 19841025 (198444)

L133 ANSWER 397 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 DUPLICATE 190
 TI ON THE INFLUENCE OF CHOLESTEROL FEEDING AND OF A LIPOGENIC DIET ON THE CHOLESTEROGENESIS IN RAT LIVER IN-VIVO.
 SO Helvetica Chimica Acta, (1977) Vol. 60, No. 8, pp. 2686-2694.
 CODEN: HCACAV. ISSN: 0018-019X.
 AU WISS O [Reprint author]; WISS V
 AN 1978:234974 BIOSIS

L133 ANSWER 398 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 DUPLICATE 191
 TI ON METABOLIC DEGRADATIONS OF SQUALENE LANOSTEROL AND CHOLESTEROL IN RAT LIVER IN-VIVO EVIDENCE FOR RE CYCLING OF METABOLITES FOR THE **SYNTHESIS OF ISOPRENE** COMPOUNDS.
 SO Helvetica Chimica Acta, (1977) Vol. 60, No. 6, pp. 1961-1966.
 CODEN: HCACAV. ISSN: 0018-019X.
 AU WISS O [Reprint author]; WISS V
 AN 1978:157927 BIOSIS

L133 ANSWER 399 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Hydroperoxide oxidation of phosphorus ylides: a new and useful route to symmetrical **carotenoids**
 SO Justus Liebigs Annalen der Chemie (1977), (7), 1146-59
 CODEN: JLACBF; ISSN: 0075-4617
 AU Nuerrenbach, Axel; Paust, Joachim; Pommer, Horst; Schneider, Joachim; Schulz, Bernhard
 AN 1978:121450 HCAPLUS
 DN 88:121450

L133 ANSWER 400 OF 558 MEDLINE on STN DUPLICATE 192
 TI [Participation of **acetate** in the biosynthesis of **carotenoids** and macrotetralids by Actinomyces chrysomallus var.

carotenoides].

Uchastie atsetata v biosinteze karotinoidov i **makrotetralidov**

Actinomyces chrysomallus var. **carotenoides**.

SO MIKROBIOLOGIYA, (1977 Nov-Dec) 46 (6) 1122-3.

Journal code: 0376652. ISSN: 0026-3656.

AU Sverdlova A N; Silaev A B; Alekseeva L N; Nefelova M V

AN 78091762 MEDLINE

L133 ANSWER 401 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI PARTICIPATION OF **ACETATE** IN BIOSYNTHESIS OF **CAROTENOIDS**
AND MACRO TETRALIDES BY ACTINOMYCES-CHRYSMALLUS-VAR-**CAROTENOIDES**

SO Mikrobiologiya, (1977) Vol. 44, No. 6, pp. 1122-1123.

CODEN: MIKBA5. ISSN: 0026-3656.

AU SVERDLOVA A N [Reprint author]; SILAEV A B; ALEKSEEVA L N; NEFELOVA M V

AN 1978:204223 BIOSIS

L133 ANSWER 402 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Higher **isoprenoids**. V. Partial **syntheses** from
cycloartenol, cyclolaudenol. Part 1. Mangiferolic acid, ambolic acid

SO Tetrahedron (1977), 33(7), 817-19

CODEN: TETRAB; ISSN: 0040-4020

AU Singh, Chandan; Dev, Sukh

AN 1977:536027 HCAPLUS

DN 87:136027

L133 ANSWER 403 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Total **synthesis** of dl- α -tocopherol from **isoprene**

SO Eesti NSV Teaduste Akadeemia Toimetised, Keemia, Geoloogia (1977), 26(4),
271-4

CODEN: EKEGAI; ISSN: 0424-6373

AU Laats, K.; Kogerman, A.; Ammon, K.

AN 1978:136801 HCAPLUS

DN 88:136801

L133 ANSWER 404 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Catalyst, containing zinc acetate and cadmium acetate applied on activated
coal, for vapor-phase synthesis of complex vinyl esters from acetylene and
carboxylic acids

SO U.S.S.R.

From: Otkrytiya, Izobret., Prom. Obraztsy, Tovarnye Znaki 1976, 53(48),
20.

CODEN: URXXAF

IN Boyadzhyan, V. K.; Barsetyan, V. L.; Khachatryan, S. S.; Eritsyan, V. K.;
Voskanyan, P. S.; Stepanyan, G. G.; Antonyan, E. A.; Ovsepyan, L. A.;
Galstyan, A. P.; Badalyan, A. G.

AN 1977:96656 HCAPLUS

DN 86:96656

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
SU 540658	T	19761230	SU 1975-2157670	19750603

L133 ANSWER 405 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Optically active cyclohexane derivatives

SO Ger. Offen., 68 pp.

CODEN: GWXXBX

IN Boguth, Walter; Leuenberger, Hans G. W.; Mayer, Hans Johann; Widmer,
Erich; Zell, Reinhard

AN 1976:492200 HCAPLUS

DN 85:92200

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2537060	A1	19760304	DE 1975-2537060	19750820
DE 2537060	B2	19790523		

DE 2537060	C3	19800117		
CH 605533	A	19780929	CH 1974-11434	19740821
US 3988205	A	19761026	US 1975-601770	19750804
JP 51082789	A2	19760720	JP 1975-99888	19750819
JP 58007277	B4	19830209		
FR 2303797	A1	19761008	FR 1975-25631	19750819
FR 2303797	B1	19800725		
BE 832565	A1	19760220	BE 1975-159309	19750820
GB 1508195	A	19780419	GB 1975-34605	19750820
GB 1508197	A	19780419	GB 1976-47891	19750820
GB 1508196	A	19780419	GB 1976-47892	19750820
AT 7506455	A	19780515	AT 1975-6455	19750820
AT 347422	B	19781227		
NL 7509925	A	19760224	NL 1975-9925	19750821
NL 169195	B	19820118		
NL 169195	C	19820616		
JP 57011300	B4	19820303	JP 1976-452	19760101
FR 2303786	A1	19761008	FR 1976-16821	19760603
FR 2303786	B1	19800530		
FR 2303798	A1	19761008	FR 1976-16822	19760603
FR 2303798	B1	19821029		
US 4026949	A	19770531	US 1976-707128	19760720
US 4072715	A	19780207	US 1976-707123	19760720
US 4095038	A	19780613	US 1976-707146	19760720
US 4156100	A	19790522	US 1977-849138	19771107
JP 55033463	A2	19800308	JP 1979-66908	19790531
JP 59001692	B4	19840113		

L133 ANSWER 406 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
 TI 4-Chloro 2-methyl crotonaldehyde **production** - by chlorinating
isoprene monoxide e.g. with tert. butyl hypochlorite, useful as
 vitamin A intermediate.

PI DE 2620968 A 19761118 (197648)*
 US 4054608 A 19771018 (197743)
 DE 2620968 B 19790607 (197924)
 IT 1038011 B 19791120 (198010)

L133 ANSWER 407 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Cyclobutene derivatives as **isoprene** equivalents in terpene
synthesis. The metathesis of 1-methylcyclobutene

SO Journal of Organic Chemistry (1976), 41(24), 3928-9
 CODEN: JOCEAH; ISSN: 0022-3263

AU Wilson, Stephen R.; Schalk, David E.
 AN 1976:592924 HCAPLUS
 DN 85:192924

L133 ANSWER 408 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI New C5-compounds for terpene synthesis. I. Monoacetals of
 2-methyl-2-butene-1,4-dial

SO Justus Liebig's Annalen der Chemie (1976), (12), 2194-205
 CODEN: JLACBF; ISSN: 0075-4617

AU Paust, Joachim; Reif, Werner; Schumacher, Horst
 AN 1977:121562 HCAPLUS
 DN 86:121562

L133 ANSWER 409 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Bacterial **carotenoids**. LI. C50-**carotenoids**. 17.
 Total **synthesis** of two bacterioruberin derivatives. Absolute
 configuration of bacterioruberin

SO Tetrahedron Letters (1976), (12), 955-8
 CODEN: TELEAY; ISSN: 0040-4039

AU Johansen, Jon E.; Liaaen-Jensen, Synnove
 AN 1976:446887 HCAPLUS
 DN 85:46887

L133 ANSWER 410 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI The synthesis of 2,2'-dinorcarotenoids

SO Helvetica Chimica Acta (1976), 59(2), 439-52

CODEN: HCACAV; ISSN: 0018-019X

AU Kienzle, Frank; Minder, Rudolf E.

AN 1976:421660 HCAPLUS

DN 85:21660

L133 ANSWER 411 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

TI 2,2,6-Trimethyl-cyclohex-5-en-1,4-dione prodn - in good yields by liq phase catalytic oxidn of 3,3,5-trimethyl-cyclohex-4-en-1-one.

PI DE 2457157 A 19750612 (197525)*

NL 7415846 A 19750610 (197526)

JP 50093946 A 19750726 (197538)

FR 2253730 A 19750808 (197539)

GB 1429120 A 19760324 (197613)

US 4010205 A 19770301 (197710)

CH 585168 A 19770228 (197716)

US 4026948 A 19770531 (197723)

DE 2457157 B 19780209 (197807)

JP 53028907 B 19780817 (197837)

L133 ANSWER 412 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI **Carotenoid synthesis** using sulfones.

Synthesis of apocarotenoids and a torularhodin ester

SO Helvetica Chimica Acta (1975), 58(5), 1492-7

CODEN: HCACAV; ISSN: 0018-019X

AU Fischli, Albert; Mayer, Hans

AN 1975:514676 HCAPLUS

DN 83:114676

L133 ANSWER 413 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI **Synthesis** and reactions of **isoprenyl** terminal epoxides in the chromone and quinoline series

SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1975), (2), 150-4

CODEN: JCPRB4; ISSN: 0300-922X

AU Grundon, Michael F.; Okely, H. Martyn

AN 1975:170584 HCAPLUS

DN 82:170584

L133 ANSWER 414 OF 558 MEDLINE on STN

TI Morphology and physiology of Spirochaeta aurantia strains isolated from aquatic habitats.

SO ARCHIVES OF MICROBIOLOGY, (1975 Sep 30) 105 (1) 1-12.

Journal code: 0410427. ISSN: 0302-8933.

AU Breznak J A; Canale-Parola E

AN 76060756 MEDLINE

L133 ANSWER 415 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

TI Pivalic acid prepn from **isoprene** - by reaction with water vapour using phosphoric acid catalyst, then oxidn of pivalaldehyde.

PI JP 49024895 B 19740626 (197429)*

L133 ANSWER 416 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

TI **Isoprene** prepn from tert. butanol deriv - and formaldehyde using boron trifl-uoride catalyst.

PI JP 49010927 B 19740313 (197415)*

L133 ANSWER 417 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

TI **SYNTHESES OF ISOPRENE AND ITS INTERMEDIATES FROM**

3-HYDROXY-3-METHYLBUTYL ACETATE

SO NIPPON KAGAKU KAISHI, (1974) Vol. 1974, No. 10, pp. 2014-2016.

AU FUKUNISH.K (Reprint); NAITO I; MASHIO F
AN 74:352428 SCISEARCH

L133 ANSWER 418 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Syntheses** of **isoprene** and its intermediates from
3-hydroxy-3-methylbutyl **acetate**
SO Nippon Kagaku Kaishi (1974), (10), 2014-16
CODEN: NKAKB8; ISSN: 0369-4577
AU Fukunishi, Koushi; Naito, Ikuo; Mashio, Fujio
AN 1975:44605 HCAPLUS
DN 82:44605

L133 ANSWER 419 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Synthesis** of partially hydrogenated **isoprene** dimers
SO Nippon Kagaku Kaishi (1974), (9), 1677-81
CODEN: NKAKB8; ISSN: 0369-4577
AU Imaizumi, Fumitake; Ando, Naoki; Hirayanagi, Shigetoshi; Mori, Kan
AN 1975:18258 HCAPLUS
DN 82:18258

L133 ANSWER 420 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Stereoselective coupling reactions of allylnickel complexes
SO Gazzetta Chimica Italiana (1974), 104(5-6), 557-66
CODEN: GCITA9; ISSN: 0016-5603
AU Guerrieri, Franco; Chiusoli, Gian P.; Merzoni, Sergio
AN 1974:536288 HCAPLUS
DN 81:136288

L133 ANSWER 421 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Properties of Thiocapsa roseopersicina strain BBS isolated from the
estuary of the White Sea
SO Mikrobiologiya (1974), 43(2), 326-32
CODEN: MIKBA5; ISSN: 0026-3656
AU Bogorov, L. V.
AN 1974:487746 HCAPLUS
DN 81:87746

L133 ANSWER 422 OF 558 MEDLINE on STN DUPLICATE 193
TI Nitrogen metabolism control of the **acetate**--stimulated
carotenoid synthesis in Rhodotorula sanneii.
SO ZENTRALBLATT FUR BAKTERIOLOGIE, PARASITENKUNDE, INFektionsKRANKHEITEN UND
HYGIENE. ZWEITE NATURWISSENSCHAFTLICHE ABT.: ALLGEMEINE,
LANDWIRTSCHAFTLICHE UND TECHNISCHE MIKROBIOLOGIE, (1974) 129 (1) 68-71.
Journal code: 0414371. ISSN: 0044-4057.
AU Vuori A T; Gyllenberg H G
AN 74304966 MEDLINE

L133 ANSWER 423 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
TI 3-Methylbutanediol-1,3 prodn - by catalytic oxidation of isoamyl
acetate, hydrogenation and saponification.
PI SU 393261 A 19731228 (197421)*

L133 ANSWER 424 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Carotenoids** and degraded **carotenoids**. II.
Synthesis of dl-3-hydroxydihydro- β -damascone and
dihydro- β -damascone
SO Agricultural and Biological Chemistry (1973), 37(12), 2907-11
CODEN: ABCHA6; ISSN: 0002-1369
AU Mori, Kenji; Ohki, Masahiko; Okada, Katsuhide; Takei, Yoko; Matsui,
Masanao
AN 1974:83309 HCAPLUS
DN 80:83309

L133 ANSWER 425 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Synthesis of trans-4-amino-1-hydroxy-2-methyl-2-butene from
isoprene (synthesis of zeatin)
 SO Nippon Nogei Kagaku Kaishi (1973), 47(12), 807-11
 CODEN: NNKKA; ISSN: 0002-1407
 AU Ohsugi, Motoyoshi; Takahashi, Satoru; Ichimoto, Itsuo; Ueda, Hiroo
 AN 1974:403280 HCAPLUS
 DN 81:3280

L133 ANSWER 426 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Use of microbial **carotene** in rations of two generations of hens
 in comparison with other vitamin A sources
 SO Vitam. Pitan. S-kh. Zhivotn. (1973), 286-98. Editor(s): Tomme, M. F.
 Publisher: "Kolos", Moscow, USSR.
 CODEN: 29SJA8
 AU Semin, V. N.; Tkachev, I. F.; Bukhtiyarova, O. N.
 AN 1975:407774 HCAPLUS
 DN 83:7774

L133 ANSWER 427 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Reactions of π -allylic nickel(II) bromide with organic halides. Novel
 synthesis of monoterpenoid compounds
 SO Journal of Organic Chemistry (1972), 37(3), 462-6
 CODEN: JOCEAH; ISSN: 0022-3263
 AU Sato, Kikumasa; Inoue, Seichi; Ota, Satoshi; Fujita, Yoshiji
 AN 1972:85936 HCAPLUS
 DN 76:85936

L133 ANSWER 428 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Extension of shelf life of fresh fruits and vegetables. VIII. Effect of
 packaging in polyethylene bags on incorporation of 2-¹⁴C-mevalonic acid
 and 2-¹⁴C-**acetate** into tomato **carotenoids**
 SO Journal of the Japanese Society for Horticultural Science (1972), 41(1),
 92-7
 CODEN: EGKZA9; ISSN: 0013-7626
 AU Okubo, Masutaro; Umeda, Keiji
 AN 1972:486729 HCAPLUS
 DN 77:86729

L133 ANSWER 429 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Effect of potassium and sodium acetates on pigment production in
 Staphylococcus aureus 209-P
 SO Mikrobiologiya (1971), 40(6), 1112-13
 CODEN: MIKBA5; ISSN: 0026-3656
 AU Ignatov, V. V.; Stupnikova, S. K.; Volkova, V. V.
 AN 1972:122238 HCAPLUS
 DN 76:122238

L133 ANSWER 430 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Effects of beta-**carotene**, vitamin A, and glucocorticoids on
 collagen synthesis in wounds
 SO Proceedings of the Society for Experimental Biology and Medicine (1971),
 137(3), 936-8
 CODEN: PSEBAA; ISSN: 0037-9727
 AU Ehrlich, H. Paul; Tarver, H.
 AN 1971:461125 HCAPLUS
 DN 75:61125

L133 ANSWER 431 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI **CAROTENOID SYNTHESIS** IN A SUSPENSION CULTURE OF
 CARROT-D CELLS.
 SO Plant and Cell Physiology, (1971) Vol. 12, No. 4, pp. 525-531.
 CODEN: PCPHA5. ISSN: 0032-0781.
 AU SUGANO N; MIYA S; NISHI A
 AN 1972:139862 BIOSIS

L133 ANSWER 432 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Regulation of the synthesis of metabolites synthesized via acetyl-coenzyme
A in a culture of Streptomyces erythraeus
SO Mikrobiologiya (1971), 40(2), 246-51
CODEN: MIKBA5; ISSN: 0026-3656
AU Bezborodov, A. M.; Galynkin, V. A.
AN 1971:431601 HCAPLUS
DN 75:31601

L133 ANSWER 433 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Research, conducted at the All-Union Scientific-Research Institute of
Synthetic Rubber, on the preparation of basic monomers for the synthesis
of rubbers
SO Kauchuk i Rezina (1971), 30(2), 15-17
CODEN: KCRZAE; ISSN: 0022-9466
AU Gorin, Yu. A.
AN 1971:143011 HCAPLUS
DN 74:143011

L133 ANSWER 434 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Nonconjugated dienes
SO Jpn. Tokkyo Koho, 2 pp.
CODEN: JAXXAD
IN Hata, Go; Aoki, Kazumi
AN 1972:15566 HCAPLUS
DN 76:15566

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 45007526	B4	19700316	JP	19650809

L133 ANSWER 435 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Utilization of malonyl-CoA for the biosynthesis of β - **carotene**
and ergosterol in cell-free preparations from Blakeslea trispora
SO Acta Chemica Scandinavica (1947-1973) (1970), 24(7), 2361-5
CODEN: ACSAA4; ISSN: 0001-5393
AU Neujahr, Halina Y.; Bjork, Lars
AN 1971:60949 HCAPLUS
DN 74:60949

L133 ANSWER 436 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Structure and **synthesis** of new phenolic **carotenoids**
from Streptomyces mediolani
SO Gazzetta Chimica Italiana (1970), 100(6), 581-90
CODEN: GCITA9; ISSN: 0016-5603
AU Arcamone, Federico; Camerion, Bruno; Franceschi, Giovanni; Penco, Sergio
AN 1971:23040 HCAPLUS
DN 74:23040

L133 ANSWER 437 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Anaerobic growth of purple nonsulfur bacteria under dark conditions
SO Journal of Bacteriology (1970), 104(1), 462-72
CODEN: JOBAAY; ISSN: 0021-9193
AU Uffen, Robert L.; Wolfe, Ralph S.
AN 1970:517618 HCAPLUS
DN 73:117618

L133 ANSWER 438 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI BIOCHEMICAL ASPECTS OF FUNGAL DIFFERENTIATION NEUROSPORA MODEL.
SO Physiologie Vegetale, (1970) Vol. 8, No. 3, pp. 375-386.
CODEN: PHYVAP. ISSN: 0031-9368.
AU TURIAN G
AN 1971:147220 BIOSIS

L133 ANSWER 439 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Reagent for the detection of acetylene derivatives on thin-layer plates
 SO Journal of Chromatography (1970), 49(2), 317-22
 CODEN: JOCRAM; ISSN: 0021-9673
 AU Schulte, Karl E.; Ruecker, G.
 AN 1970:484464 HCAPLUS
 DN 73:84464

L133 ANSWER 440 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Use of a polarographic method in controlling vitamin production
 SO Problemy Analiticheskoi Khimii (1970), 1, 177-84
 CODEN: PYAKAP; ISSN: 0370-2677
 AU Devyatnin, V. A.; Solunina, I. A.
 AN 1971:146292 HCAPLUS
 DN 74:146292

L133 ANSWER 441 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Catalytic ene **synthesis** with carbonyl compounds. Addition of **isoprene** to formaldehyde
 SO Doklady Akademii Nauk SSSR (1970), 190(1), 102-3 [Chem]
 CODEN: DANKAS; ISSN: 0002-3264
 AU Klimova, E. I.; Arbuzov, Yu. A.
 AN 1970:111143 HCAPLUS
 DN 72:111143

L133 ANSWER 442 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Effectiveness of various sources of vitamin A in poultry rations
 SO Vestnik Sel'skokhozyaistvennoi Nauki (Moscow) (1970), 15(9), 73-82
 CODEN: VSNLAF; ISSN: 0206-6335
 AU Tkachev, I. F.; Semin, V. N.; Bukhtiyarova, O. N.
 AN 1971:10902 HCAPLUS
 DN 74:10902

L133 ANSWER 443 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Catalytic oxidative dehydrogenation reaction of hydrocarbons. III. **Production of isoprene** by oxidative dehydrogenation
 SO Kogyo Kagaku Zasshi (1969), 72(12), 2571-7
 CODEN: KGKZA7; ISSN: 0368-5462
 AU Nishikawa, Eiichiro; Ueki, Toru; Mori, Goichi; Morita, Yoshiro
 AN 1970:99910 HCAPLUS
 DN 72:99910

L133 ANSWER 444 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Biosynthesis of β - **carotene** by cell-free extracts of *Phycomyces blakesleeana*
 SO Journal of Biological Chemistry (1969), 237, 681-6
 CODEN: JBCHA3; ISSN: 0021-9258
 AU Yokoyama, H.; Nakayama, T. O. M.; Chichester, C. O.
 AN 1962:405959 HCAPLUS
 DN 57:5959
 OREF 57:1273b-e

L133 ANSWER 445 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Natural [poly(**isoprenyl**)]phenols. **Synthesis of** grifolin and ostruthin
 SO Gazzetta Chimica Italiana (1969), 99(3), 308-15
 CODEN: GCITA9; ISSN: 0016-5603
 AU Cardillo, Giuliana; Cricchio, Renato; Merlini, Lucio; Nasini, Gianluca
 AN 1969:422201 HCAPLUS
 DN 71:22201

L133 ANSWER 446 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Function of sterols in *Mycoplasma*
 SO Abhandlungen der Deutschen Akademie der Wissenschaften zu Berlin, Klasse

fuer Medizin (1969), Volume Date 1968, No. 2, 37-45
CODEN: ADWMAX; ISSN: 0568-4250

AU Smith, Paul Francis
AN 1969:457813 HCAPLUS
DN 71:57813

L133 ANSWER 447 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Radioisotopic studies on the biosynthesis of the glyceryl diether lipids
of Halobacterium cutirubrum
SO Canadian Journal of Biochemistry (1968), 46(8), 971-7
CODEN: CJBIAE; ISSN: 0008-4018
AU Kates, M.; Wassef, M. K.; Kushner, D. J.
AN 1968:457576 HCAPLUS
DN 69:57576

L133 ANSWER 448 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Biosynthesis of N6-(Δ^2 -isopentenyl)adenosine. Precursor relation of
acetate and mevalonate to the Δ^2 -isopentenyl group of the
transfer ribonucleic acid of microorganisms
SO Biochemistry (1968), 7(3), 940-4
CODEN: BICHAW; ISSN: 0006-2960
AU Fittler, Fritz; Kline, Larry K.; Hall, Ross Hume
AN 1968:84264 HCAPLUS
DN 68:84264

L133 ANSWER 449 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Effect of previous illumination time of etiolated leaves of Spirodela
polyrrhiza on the radioactivity in **carotenoids**, due to sodium
acetate-2- ^{14}C , incorporation in the dark
SO Comptes Rendus des Seances de l'Academie des Sciences, Serie D: Sciences
Naturelles (1968), 267(7), 733-6
CODEN: CHDDAT; ISSN: 0567-655X
AU Moneger, Rene
AN 1969:896 HCAPLUS
DN 70:896

L133 ANSWER 450 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Biosynthesis of β - **carotene** from one-carbon units
SO Pharmazie (1968), 23(10), 594
CODEN: PHARAT; ISSN: 0031-7144
AU Reichel, Ludwig; Schreiber, Gerhard
AN 1969:17697 HCAPLUS
DN 70:17697

L133 ANSWER 451 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Effect of light on **carotenoid** biosynthesis in Spirodela
polyrrhiza
SO Physiologie Vegetale (1968), 6(2), 165-202
CODEN: PHYVAP; ISSN: 0031-9368
AU Moneger, Rene
AN 1968:457482 HCAPLUS
DN 69:57482

L133 ANSWER 452 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Secondary **carotenoids** in green algae. I. Chemistry,
occurrence, and factors controlling the biogenesis of these polyenes
SO (1968), 61(1), 81-102
AU Czygan, Franz C.
AN 1968:93812 HCAPLUS
DN 68:93812

L133 ANSWER 453 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Thermal decomposition of trimethylethylene glycol acetates
SO Azerbaidzhanskii Khimicheskii Zhurnal (1968), (1), 61-3

CODEN: AZKZAU; ISSN: 0005-2531

AU Movsumzade, M. M.; Ismailova, F. E.
AN 1968:486231 HCAPLUS
DN 69:86231

L133 ANSWER 454 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Purification of waste water in the first step of **isoprene**
synthesis from isobutylene and formaldehyde

SO U.S.S.R.

From: Izobret., Prom. Obraztsy, Tovarnye Znaki 1967, 44(6), 188.

CODEN: URXXAF

IN Zheleznyak, A. S.; Nemtsov, M. S.; Ogorodnikov, S. K.; Lesteva, T. M.;
Pokorskii, V. N.; Trenke, K. M.; Shapiro, L. P.; Yablochkina, M. N.

AN 1968:81248 HCAPLUS

DN 68:81248

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
SU 193367		19670302	SU	19640603

L133 ANSWER 455 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI 4-Hydroxyretinal

SO Fr., 3 pp.

CODEN: FRXXAK

IN Reedy, Albert J.

AN 1968:29903 HCAPLUS

DN 68:29903

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1484573		19670609		
GB 1147675			GB	
US 3359323		19670000	US	

L133 ANSWER 456 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Cyclization of dehydronerolidol **acetate** as a route to the
synthesis of cyclic **isoprenoids**

SO Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (1967), (5), 1144-6
CODEN: IASKA6; ISSN: 0002-3353

AU Semenovskii, A. V.; Smit, V. A.; Chernova, T. N.; Kucherov, V. F.

AN 1968:2997 HCAPLUS

DN 68:2997

L133 ANSWER 457 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Bacterial **carotenoids**. XXIII. **Carotenoids** of
Thiorhodaceae. 6. Total **synthesis** of okenone and related
compounds

SO Acta Chemica Scandinavica (1947-1973) (1967), 21(4), 970-82
CODEN: ACSAA4; ISSN: 0001-5393

AU Aasen, Arne J.; Liaaen Jensen, Synnoeve

AN 1967:473716 HCAPLUS

DN 67:73716

L133 ANSWER 458 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Effect of dietary cholesterol and ubiquinone on **isoprene**
synthesis in rat liver

SO Archives of Biochemistry and Biophysics (1967), 121(1), 147-53
CODEN: ABBIA4; ISSN: 0003-9861

AU Krishnaiah, K. V.; Joshi, V. C.; Ramasarma, T.

AN 1967:451879 HCAPLUS

DN 67:51879

L133 ANSWER 459 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Biological activity of **carotenoids** in the bird

SO Zentralblatt fuer Veterinaermedizin, Reihe A (1967), 14(2), 119-28
CODEN: ZVRAAX; ISSN: 0300-8711

AU Prohaszka, Laszlo; Toth, Marton
AN 1967:419023 HCAPLUS
DN 67:19023

L133 ANSWER 460 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Telomerization reaction of **isoprene** with acetic acid
SO Eesti NSV Teaduste Akadeemia Toimetised, Keemia, Geoloogia (1967), 16(1),
37-47
CODEN: EKEGAI; ISSN: 0424-6373
AU Erm, A.; Laats, K.
AN 1967:490950 HCAPLUS
DN 67:90950

L133 ANSWER 461 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Mechanism of diene C₅H₈ (**isoprene**) **production** in
illuminated leaves
SO Fiziologiya Rastanii (Moscow) (1966), 13(5), 753-61
CODEN: FZRSAY; ISSN: 0015-3303
AU Sanadze, G. A.
AN 1967:8846 HCAPLUS
DN 66:8846

L133 ANSWER 462 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Influence of lipid components of Mycoplasma laidlawii membranes on osmotic
fragility of cells
SO Journal of Bacteriology (1966), 91(2), 609-16
CODEN: JOBAA; ISSN: 0021-9193
AU Razin, S.; Tourtellotte, M. E.; McElhaney, R. N.; Pollack, J. D.
AN 1966:53896 HCAPLUS
DN 64:53896
OREF 64:10115b-d

L133 ANSWER 463 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Role of **carotenoids** in egg **production** and in the
liveability of baby chicks
SO Magyar Allatorvosok Lapja (1966), 21(12), 552-5
CODEN: MGALA5; ISSN: 0025-004X
AU Prohaszka, Laszlo; Toth, Marton
AN 1967:83546 HCAPLUS
DN 66:83546

L133 ANSWER 464 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Synthesis** in the **carotenoids** series. XX. Novel
syntheses of apocarotenoids
SO Helvetica Chimica Acta (1966), 49(1), 369-90
CODEN: HCACAV; ISSN: 0018-019X
AU Schwieter, U.; Gutmann, H.; Lindlar, H.; Marret, R.; Rigassi, N.; Ruegg,
R.; Schaeren, S. F.; Isler, O.
AN 1966:68009 HCAPLUS
DN 64:68009
OREF 64:12734b-h,12735a-d

L133 ANSWER 465 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Syntheses** of **carotenoidal** compounds. II. Preparation
of polyene(benzo)fulvenes
SO Recueil des Travaux Chimiques des Pays-Bas (1966), 85(3), 339-42
CODEN: RTCPA3; ISSN: 0165-0513
AU Haack, H. H.; Kralt, T.
AN 1966:420974 HCAPLUS
DN 65:20974
OREF 65:3915g-h,3916a-c

L133 ANSWER 466 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Biogenesis of **carotenoids** in Trentepohlia aurea

SO Zeitschrift fuer Pflanzenphysiologie (1966), 55(1), 59-64
CODEN: ZSPPAD; ISSN: 0044-328X
AU Czygan, Franz Christian; Kalb, Klaus
AN 1966:475605 HCAPLUS
DN 65:75605
OREF 65:14151e-f

L133 ANSWER 467 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Comtemporary notions on the biosynthesis of **carotenoids**
SO Ukrains'kii Botanichnii Zhurnal (1966), 23(2), 3-11
From: Ref. Zh., Biol. Khim. 1967, Abstr. No. 2F803
CODEN: UKBZAW; ISSN: 0372-4123
AU Drokova, G.
AN 1967:112109 HCAPLUS
DN 66:112109

L133 ANSWER 468 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Quaternary ionic phosphonium salts
SO 11 pp.
IN Nuerrenbach, Axel; Sarnecki, Wilhelm; Reif, Werner
AN 1965:498600 HCAPLUS
DN 63:98600
OREF 63:18156c-f

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 1395458		19650409	FR	

L133 ANSWER 469 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Xanthenes. VI. Claisen rearrangements, selective demethylations, and synthesis of dihydroisojacareubin and alvaxanthone trimethyl ether
SO Tetrahedron (1965), 21(9), 2653-69
CODEN: TETRAB; ISSN: 0040-4020
AU Burling, E. D.; Jefferson, A.; Scheinmann, F.
AN 1965:498140 HCAPLUS
DN 63:98140
OREF 63:18011a-h,18012a-e

L133 ANSWER 470 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Carotenoids** and related compounds. XI. **Syntheses of δ -carotene and ϵ -carotene**
SO Journal of the Chemical Society, Abstracts (1965), (March), 2019-26
CODEN: JCSAAZ; ISSN: 0590-9791
AU Manchand, P. S.; Ruegg, R.; Schwieter, U.; Siddons, P. T.; Weedon, B. C. L.
AN 1965:74391 HCAPLUS
DN 62:74391
OREF 62:13187b-d

L133 ANSWER 471 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Comparative biosynthesis of mevalonic acid by Mycoplasma
SO Journal of Bacteriology (1965), 89(1), 146-53
CODEN: JOBAAY; ISSN: 0021-9193
AU Smith, Paul F.; Henrikson, C. V.
AN 1965:24065 HCAPLUS
DN 62:24065
OREF 62:4353e-g

L133 ANSWER 472 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Vitamin A and **isoprenoid synthesis** in the rat
SO Biochemical Journal (1965), 95(1), 138-43
CODEN: BIJOAK; ISSN: 0264-6021
AU Diplock, A. T.; Green, J.; Bunyan, J.
AN 1965:61219 HCAPLUS
DN 62:61219

OREF 62:10899c-d

L133 ANSWER 473 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI The lipase and pigments of staphylococci
SO Annals of the New York Academy of Sciences (1965), 128(1), 132-51
CODEN: ANYAA9; ISSN: 0077-8923
AU Stewart, Gordon T.
AN 1965:501202 HCAPLUS
DN 63:101202
OREF 63:18681b-d

L133 ANSWER 474 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Biosynthesis of ubiquinone (coenzyme Q) in microorganisms
SO Bulletin of the National Institute of Sciences of India (1965), No. 28,
25-31
CODEN: BNSIAE; ISSN: 0027-9528
AU Jayaraman, J.; Raman, Tarakad S.
AN 1967:26725 HCAPLUS
DN 66:26725

L133 ANSWER 475 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Syntheses** of β - **carotene** and **lycopene**
from 4-octene-2,7-dione
SO Justus Liebigs Annalen der Chemie (1965), 684, 14-24
CODEN: JLACBF; ISSN: 0075-4617
AU Kabbe, Hans Joachim; Truscheit, Ernst; Eiter, Karl
AN 1965:431860 HCAPLUS
DN 63:31860
OREF 63:5688e-h,5689a-c

L133 ANSWER 476 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Carotenoids** and related compounds. XII. **Synthesis** of
chlorobactene, "HO-chlorobactene" and rhodopin
SO Acta Chemica Scandinavica (1964), 18(7), 1739-44
CODEN: ACHSE7; ISSN: 0904-213X
AU Bonnett, R.; Spark, A. A.; Weedon, B. C. L.
AN 1965:439278 HCAPLUS
DN 63:39278
OREF 63:7052f-h,7053a-e

L133 ANSWER 477 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI 3-Methyl-3-buten-1-ol **acetate** and **isoprene** glycol
diacetate
SO 3 pp.
AN 1963:415164 HCAPLUS
DN 59:15164
OREF 59:2653h,2654a

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	GB 918962		19630220	GB	

L133 ANSWER 478 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Vitamin A intermediates
SO 6 pp.
IN Truscheit, Ernst; Eiter, Karl; Oediger, Hermann; Stein, Eberhard; Kabbe,
Hans J.; Lorenz, Rudolf
AN 1963:468787 HCAPLUS
DN 59:68787
OREF 59:12661f-h,12662a

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 1149353		19630530	DE	19600803
	GB 952498			GB	
	US 3247239		1966	US	

L133 ANSWER 479 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Asymmetrical incorporation of **acetate**-14C into β -**carotene** bio-**synthesized** by *Phycomyces blakesleeianus*
 SO Proceedings of the Society for Experimental Biology and Medicine (1963), 114, 444-7
 CODEN: PSEBAA; ISSN: 0037-9727
 AU Lotspeich, F. J.; Krause, R. F.; Lilly, V. G.; Barnett, H. L.
 AN 1964:32973 HCAPLUS
 DN 60:32973
 OREF 60:5916g-h

L133 ANSWER 480 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI The incorporation of C14O2 **acetate**-2-C14, and mevalonate-2-C14 into the **carotenoids** of mature tomato leaves
 SO Ann. Physiol. Vegetale (1963), 5(2), 115-40
 AU Costes, C.
 AN 1963:464175 HCAPLUS
 DN 59:64175
 OREF 59:11895g-h,11896a

L133 ANSWER 481 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Action of diterpene alcohols on the biosynthesis of **carotenoids** and phytol, using **acetate**-2-C14 in maize plantules
 SO Compt. Rend. (1962) 355-7
 AU Costes, Claude
 AN 1962:485298 HCAPLUS
 DN 57:85298
 OREF 57:17082h-i

L133 ANSWER 482 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI The effect of diphenylamine on **carotenoid**, sterol, and fatty acid **synthesis** in *Phycomyces blakesleeianus*
 SO Archives of Biochemistry and Biophysics (1962), 97, 138-45
 CODEN: ABBIA4; ISSN: 0003-9861
 AU Olson, James Allen; Knizley, Homer, Jr.
 AN 1962:412893 HCAPLUS
 DN 57:12893
 OREF 57:2657c-e

L133 ANSWER 483 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Partial **syntheses** of **carotenes** by means of lead tetraacetate
 SO Rev. Chim., Acad. Rep. Populaire Roumaine (1962), 7(1), 79-84
 AU Bodea, C.; Nicoara, E.
 AN 1963:435760 HCAPLUS
 DN 59:35760
 OREF 59:6450f-h

L133 ANSWER 484 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Improvement in synthesis of vitamin A acid and related compounds
 IN Pommer, Horst; Sarnecki, Wilhelm
 AN 1962:67055 HCAPLUS
 DN 56:67055
 OREF 56:12960g-i,12961a-i,12962a-i,12963a,12964a

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3006939		19611031	US	

L133 ANSWER 485 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Influence of insect lures on hyphal growth and sporulation of *Choanephora trispora*
 SO Canadian Journal of Microbiology (1961), 7, 807-13
 CODEN: CJMIAZ; ISSN: 0008-4166

AU Zajic, James E.; Kuehn, H. H.
AN 1962:33992 HCAPLUS
DN 56:33992
OREF 56:6468c-f

L133 ANSWER 486 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Mevalonic acid and **carotenogenes** in carrot extracts
SO Naturwissenschaften (1961), 48, 738-9
CODEN: NATWAY; ISSN: 0028-1042
AU Modi, V. V.; Patwa, D. K.
AN 1962:80803 HCAPLUS
DN 56:80803
OREF 56:15806f-g

L133 ANSWER 487 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Acetate** incorporation into the **carotenoids** of
Chromatium
SO Biochimica et Biophysica Acta (1961), 54, 525-32
CODEN: BBACAQ; ISSN: 0006-3002
AU Benedict, C. R.; Fuller, R. C.; Bergeron, J. A.
AN 1962:55919 HCAPLUS
DN 56:55919
OREF 56:10683h-i

L133 ANSWER 488 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Glucose as a carbon source for **carotene synthesis** in
tomatoes
SO Archives of Biochemistry and Biophysics (1961), 93, 231-7
CODEN: ABBIA4; ISSN: 0003-9861
AU Purcell, Albert E.; Thompson, Guy A., Jr.
AN 1961:112745 HCAPLUS
DN 55:112745
OREF 55:21255c-e

L133 ANSWER 489 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Factors affecting the **production** of **carotene** by
Choanephora cucurbitarum
SO Mycologia (1961), Volume Date 1960, 52, 80-96
CODEN: MYCOAE; ISSN: 0027-5514
AU Chu, F. S.; Lilly, Virgil Greene
AN 1962:55975 HCAPLUS
DN 56:55975
OREF 56:10696b-f

L133 ANSWER 490 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Enzymic **synthesis** of **carotenoids** in cell-free extracts
of carrot
SO Enzymologia (1961), 23, 27-34
CODEN: ENZYAS; ISSN: 0013-9424
AU Modi, V. V.; Patwa, D. K.
AN 1961:100109 HCAPLUS
DN 55:100109
OREF 55:18888e

L133 ANSWER 491 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI γ,γ -Dimethylallyl **acetate**
IN Samokhvalov, G. I.; Miropol'skaya, M. A.; Fedotova, N. I.; Anosov, V. I.;
Nashatyrev, A. N.; Savostin, A. P.
AN 1960:80369 HCAPLUS
DN 54:80369
OREF 54:15248g-i

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	SU 125800		19600201	SU	

L133 ANSWER 492 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI Enzymic **synthesis** and destruction of **carotenoids** in
mango extracts

SO Experientia (1960), 16, 352

CODEN: EXPEAM; ISSN: 0014-4754

AU Modi, V. V.; Patwa, D. K.

AN 1961:23351 HCAPLUS

DN 55:23351

OREF 55:4663a-b

L133 ANSWER 493 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI **Carotenoid syntheses**. XXVIII. **Syntheses** of
4-hydroxy derivatives of β -apocarotenals and β -apocarotenic
acids as well as the preparation of 3,4-dehydro- β -apocarotenals and
3,4-dehydro- β -apocarotenic acids

SO Helvetica Chimica Acta (1960), 43, 94-101

CODEN: HCACAV; ISSN: 0018-019X

AU Entschel, R.; Karrer, P.

AN 1961:131429 HCAPLUS

DN 55:131429

OREF 55:24822b-f

L133 ANSWER 494 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI The **production** of **carotene** by Phycomyces
blakesleeanus. II. The **production** of radioactive β -
carotene by using Phycomyces blakesleeanus

SO West Va., Univ. Agr. Expt. Sta., Bull. (1960), No. 441T, 61-76
From: Biol. Abstr. 35, Abstr. No. 64209(1960).

AU Lilly, Virgil Greene; Barnett, H. L.; Krause, R. F.

AN 1961:138181 HCAPLUS

DN 55:138181

OREF 55:26134i,26135a-b

L133 ANSWER 495 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI **Synthesis** of oxygenated **carotenoids**

SO Voprosy Khim. Terpenov i Terpenoidov, Akad. Nauk Litovsk. S.S.R., Trudy
Vsesoyuz. Soveshchaniya, Vil'nyus (1960), Volume Date 1959 43-9

AU Samokhvalov, G. I.; Vakulova, L. A.

AN 1961:93066 HCAPLUS

DN 55:93066

OREF 55:17490g-i

L133 ANSWER 496 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI **Carotenogenesis**. XXVI. The incorporation of **acetate**
-C14, mevalonate-C14 and C14O2 into β - **carotene** by the
fungus Phycomyces blakesleeanus

SO Biochemical Journal (1960), 76, 5-10

CODEN: BIJOAK; ISSN: 0264-6021

AU Braithwaite, G. D.; Goodwin, T. W.

AN 1960:130324 HCAPLUS

DN 54:130324

OREF 54:25062f-h

L133 ANSWER 497 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI **Carotenogenesis**. XXV. The incorporation of **acetate**
-1-C14, **acetate**-2-C14 and C14O2 into **lycopene** by
tomato slices

SO Biochemical Journal (1960), 76, 1-5

CODEN: BIJOAK; ISSN: 0264-6021

AU Braithwaite, G. D.; Goodwin, T. W.

AN 1960:130323 HCAPLUS

DN 54:130323

OREF 54:25062d-f

L133 ANSWER 498 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Biosynthesis of **carotenes** in carrot extracts
 SO Nature (London, United Kingdom) (1959), 184(Suppl. No.13), 983-4
 CODEN: NATUAS; ISSN: 0028-0836
 AU Modi, V. V.; Patwa, D. K.
 AN 1960:63306 HCAPLUS
 DN 54:63306
 OREF 54:12276c-d

L133 ANSWER 499 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI **Syntheses** in the **carotenoid** series. XV.
Syntheses in the β , **carotenal** and β -**carotenol** series
 SO Helvetica Chimica Acta (1959), 42, 854-64
 CODEN: HCACAV; ISSN: 0018-019X
 AU Ruegg, R.; Montavon, M.; Ryser, G.; Saucy, G.; Schwieter, U.; Isler, O.
 AN 1960:2428 HCAPLUS
 DN 54:2428
 OREF 54:625b-i

L133 ANSWER 500 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Comparison of the incorporation of labeled CO₂, **acetate** and mevalonate into **carotenoids** in a number of **carotenogenic** systems
 SO C I B A Foundation Symposium Biosynthesis of Terpenes and Sterols (1959), Volume Date 1958 279-91, discussion 291-4
 AU Goodwin, T. W.
 AN 1960:17695 HCAPLUS
 DN 54:17695
 OREF 54:3602d-i,3603a

L133 ANSWER 501 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Biosynthesis of **carotenoids** by microorganisms
 SO Ciba Foundation Symposium Biosynthesis of Terpenes and Sterols (1959), Volume Date 1958 267-76, discussion 277-8
 AU Grob, E. C.
 AN 1960:29345 HCAPLUS
 DN 54:29345
 OREF 54:5810a-d

L133 ANSWER 502 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI β - **Carotene** fermentation
 SO Rept. Taiwan Sugar Expt. Sta. (Taiwan) (1959), 20, 91-100
 From: Biol. Abstr. 36, Abstr. No. 18343(1961).
 AU Su, K. C.
 AN 1962:471698 HCAPLUS
 DN 57:71698
 OREF 57:14290a-c

L133 ANSWER 503 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Thermal rearrangement of ergosterol peroxide
 SO Ann. (1959), 620, 46-62
 AU Bergmann, Werner; Meyers, Martin B.
 AN 1959:112015 HCAPLUS
 DN 53:112015
 OREF 53:20132i,20133a-i,20134a

L133 ANSWER 504 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI **Carotenoid syntheses**. XXIV. Further reactions of β - and α - **carotene** with bromosuccinimide
 SO Helvetica Chimica Acta (1958), 41, 983-7
 CODEN: HCACAV; ISSN: 0018-019X
 AU Entschel, R.; Karrer, P.

AN 1958:113912 HCAPLUS
DN 52:113912
OREF 52:20234h-i,20235a-b

L133 ANSWER 505 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Carotenogenesis**. XXV. The incorporation of C14-carbon dioxide,
acetate-C14, and mevalonate-C14 into β - **carotene** by
illuminated etiolated maize seedlings
SO Biochemical Journal (1958), 70, 612-17
CODEN: BIJOAK; ISSN: 0264-6021
AU Goodwin, T. W.
AN 1959:12402 HCAPLUS
DN 53:12402
OREF 53:2367c-f

L133 ANSWER 506 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Carotenoid** biosynthesis in tomatoes
SO Proceedings of the American Society for Horticultural Science (1958), 71,
349-55
CODEN: PASHA6; ISSN: 0099-4065
AU Francis, F. J.
AN 1958:105417 HCAPLUS
DN 52:105417
OREF 52:18692i,18693a-b

L133 ANSWER 507 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI The chemical mechanism of acetoacetic acid synthesis in the liver
SO Biochemische Zeitschrift (1958), 330, 269-95
CODEN: BIZEA2; ISSN: 0366-0753
AU Lynen, Feodor; Henning, Ulf; Bublitz, Clark; Sorbo, Bo; Kroplin-Rueff,
Luistraud
AN 1961:60388 HCAPLUS
DN 55:60388
OREF 55:11586a-e

L133 ANSWER 508 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Effect of light and temperature on the **production** of
carotenoid pigments by + and - sexes of *Phycomyces blakes-leeanus*
SO Proc. West Va. Acad. Sci. (1958), Volume Date 1957-1958, 29/30, 25-31
AU Lilly, V. G.; Barnett, H. L.; Krause, R. F.
AN 1960:23855 HCAPLUS
DN 54:23855
OREF 54:4771g-i,4772a

L133 ANSWER 509 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Unsaturated compounds
AN 1958:6619 HCAPLUS
DN 52:6619
OREF 52:1223i,1224a-c

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	GB 775060		19570515	GB	
	US 2917539		1959	US	

L133 ANSWER 510 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Total **synthesis** of **isoprenoid** alcohols
SO Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (1957) 1267-70
CODEN: IASKA6; ISSN: 0002-3353
AU Nazarov, I. N.; Gusev, B. P.; Gunar, V. I.
AN 1958:34658 HCAPLUS
DN 52:34658
OREF 52:6150h-i,6151a-g

L133 ANSWER 511 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

TI **Syntheses** in the **carotenoid** series. VIII. Total
synthesis of cryptoxanthin and a further synthesis of zeaxanthin
SO Helvetica Chimica Acta (1957), 40, 456-67
CODEN: HCACAV; ISSN: 0018-019X
AU Isler, O.; Lindlar, H.; Montavon, M.; Ruegg, R.; Saucy, G.; Zeller, P.
AN 1957:62225 HCAPLUS
DN 51:62225
OREF 51:11293i,11294a-f

L133 ANSWER 512 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Xanthinin, a monocarbocyclic sesquiterpenoid lactone
SO Chemistry & Industry (London, United Kingdom) (1957) 328
CODEN: CHINAG; ISSN: 0009-3068
AU Geissman, T. A.; Deuel, P. G.
AN 1957:62224 HCAPLUS
DN 51:62224
OREF 51:11293f-i

L133 ANSWER 513 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Biosynthesis of polyisoprenoids. I. Synthesis of β -hydroxy- β -methylglutaric acid semialdehyde
SO Ann. (1957), 608, 71-8
AU Eggerer, Hermann; Lynen, Feodor; Rauenbusch, Erich; Kessel, Ingrid
AN 1958:77035 HCAPLUS
DN 52:77035
OREF 52:13633h-i,13634a-d

L133 ANSWER 514 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Metabolism of **acetate** in Hevea brasiliensis
SO Nature (London, United Kingdom) (1957), 180, 37
CODEN: NATUAS; ISSN: 0028-0836
AU Patrick, A. D.
AN 1958:73021 HCAPLUS
DN 52:73021
OREF 52:13012a-c

L133 ANSWER 515 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Mevalonic acid and **carotenogenesis** in Phycomyces blakesleeanus
SO Biochemical Journal (1957), 66, 31P-32P
CODEN: BIJOAK; ISSN: 0264-6021
AU Braithwaite, G. D.; Goodwin, T. W.
AN 1959:23880 HCAPLUS
DN 53:23880
OREF 53:4430a-c

L133 ANSWER 516 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Polyene diether acetals and their manufacture and conversion into polyene aldehydes
AN 1957:30032 HCAPLUS
DN 51:30032
OREF 51:5835b-f

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 753635		19560725	GB	

L133 ANSWER 517 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI 2,7-Dimethyl-2,6-octadien-4-yne-1,8-dial
AN 1956:89478 HCAPLUS
DN 50:89478
OREF 50:16862a-b

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 744890		19560215	GB	

L133 ANSWER 518 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI The synthesis and configuration of neo-b vitamin A and neoretinene b
SO Journal of the American Chemical Society (1956), 78, 2651-2
CODEN: JACSAT; ISSN: 0002-7863
AU Oroshnik, Wm.
AN 1956:81938 HCAPLUS
DN 50:81938
OREF 50:15467h-i,15468a-c

L133 ANSWER 519 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI The biosynthesis of β - **carotene** by *Mucor hiemalis*. IV. The part played by acetic acid in the **synthesis** of the **carotene** molecule, especially positions 3,4,6 and 3',4',6', studied with the aid of carbon 14-labeled acetic acid
SO Helv. Chim. Acta (1956), 39, 1975-80
AU Grob, E. C.; Butler, R.
AN 1957:17881 HCAPLUS
DN 51:17881
OREF 51:3741h-i

L133 ANSWER 520 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Carotenogenesis**. XVIII. **Carotenoid production** by a strongly chromogenic bacterium isolated from butter
SO Biochemical Journal (1956), 62, 275-81
CODEN: BIJOAK; ISSN: 0264-6021
AU Goodwin, T. W.; Jamikorn, Malini
AN 1956:40957 HCAPLUS
DN 50:40957
OREF 50:7935c-f

L133 ANSWER 521 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Syntheses** in the **carotenoid** series. II. **Synthesis** of various ring components
SO Helvetica Chimica Acta (1956), 39, 259-73
CODEN: HCACAV; ISSN: 0018-019X
AU Isler, O.; Montavon, M.; Ruegg, R.; Zeller, P.
AN 1956:81940 HCAPLUS
DN 50:81940
OREF 50:15468h-i,15469a-i,15470a-b

L133 ANSWER 522 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Some new aspects of acetic acid involved in biosynthesis of β - **carotene**
SO Chimia (Switz.) (1956), 10, 258-9
AU Grob, E. C.; Butler, R.
AN 1957:91830 HCAPLUS
DN 51:91830
OREF 51:16696b-d

L133 ANSWER 523 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Syntheses** in the **carotenoid** series. XXXIV. **Syntheses** of C14- and C15-aldehydes
SO Ann. (1956), 598, 51-64
AU Inhoffen, Hans Herloff; Erdmann, Dietrich
AN 1956:81949 HCAPLUS
DN 50:81949
OREF 50:15474c-i,15475a-f

L133 ANSWER 524 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI An alternate fatty acid cycle involving thioesters of pantetheine
SO Journal of the American Chemical Society (1955), 77, 5194-5
CODEN: JACSAT; ISSN: 0002-7863
AU Stern, Joseph R.
AN 1956:5051 HCAPLUS

DN 50:5051
OREF 50:1107b-c

L133 ANSWER 525 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI The biosynthesis of β - **carotene** by *Mucor hiemalis*. The use
of acetic acid in the **synthesis** of the **carotene**
molecule, especially in positions 14-15, 14'-15' and 10-11, 10'-11',
investigated with C14-acetic acid. III
SO Helvetica Chimica Acta (1955), 38, 1313-16
CODEN: HCACAV; ISSN: 0018-019X
AU Grob, E. C.; Butler, R.
AN 1955:78595 HCAPLUS
DN 49:78595
OREF 49:14904d-f

L133 ANSWER 526 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Carotenogenesis**. XV. The role of carboxylic acids in the
biosynthesis of β - **carotene** by *Phycomyces blakesleeanus*
SO Biochemical Journal (1955), 60, 649-55
CODEN: BIJOAK; ISSN: 0264-6021
AU Friend, J.; Goodwin, T. W.; Griffiths, L. A.
AN 1955:78514 HCAPLUS
DN 49:78514
OREF 49:14886e-h

L133 ANSWER 527 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Evaluation of methyl esters, by-product of the extraction of
carotene from palm oil
SO Oleagineux (1955), 10, 99-105, 193-6, 269-73
CODEN: OLEAAF; ISSN: 0030-2082
AU Jorand, J.
AN 1955:72026 HCAPLUS
DN 49:72026
OREF 49:13670e-g

L133 ANSWER 528 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Carotenogenesis**. **Synthesis** of β -methylcrotonic
acid by *Phycomyces blakesleeanus*
SO Proceedings of the International Congress of Biochemistry (1955) 87
CODEN: 18USAR
AU Goodwin, T. W.; Modi, V. V.
AN 1956:74532 HCAPLUS
DN 50:74532
OREF 50:14052g-i

L133 ANSWER 529 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Synthesis** of polyenes. VI. **Isoprenoid** polyenes
containing sterically hindered cis configurations
SO Journal of the American Chemical Society (1954), 76, 5719-36
CODEN: JACSAT; ISSN: 0002-7863
AU Oroshnik, Wm.; Mebane, Alexander D.
AN 1955:77776 HCAPLUS
DN 49:77776
OREF 49:14702g-i, 14703a-i, 14704a-i, 14705a-i, 14706a-b

L133 ANSWER 530 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI The biosynthesis of β - **carotene** by *Mucor hiemalis*. The use
of acetic acid in the **synthesis** of the **carotene**
molecule, especially the ionone grouping, investigated with C14-acetic
acid. II
SO Helvetica Chimica Acta (1954), 37, 1908-12
CODEN: HCACAV; ISSN: 0018-019X
AU Grob, E. C.; Butler, R.
AN 1955:12636 HCAPLUS

DN 49:12636
OREF 49:2567g-i

L133 ANSWER 531 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI The exchange of **carotenoids** in higher plants
SO Zeitschrift fuer Botanik (1954), 42, 387-435
CODEN: ZBOTA3; ISSN: 0372-8102
AU Beekmann, Helga
AN 1955:33015 HCAPLUS
DN 49:33015
OREF 49:6396f-i

L133 ANSWER 532 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI The effect of pantothenic acid, pantethine, and phosphorylated pantethine on **carotenoid** formation by *Mucor hiemalis*
SO Experientia (1954), 10, 378-9
CODEN: EXPEAM; ISSN: 0014-4754
AU Grob, E. C.; Grundbacher, V.; Schopfer, W. H.
AN 1955:5037 HCAPLUS
DN 49:5037
OREF 49:1113e-f

L133 ANSWER 533 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI The biosynthesis of β - **carotene** by *Mucor hiemalis*. The use of acetic acid in the **synthesis** of the **carotene** molecule investigated with C14-labeled acetic acid
SO Experientia (1954), 10, 250-1
CODEN: EXPEAM; ISSN: 0014-4754
AU Grob, E. C.; Butler, R.
AN 1954:60664 HCAPLUS
DN 48:60664
OREF 48:10796g-h

L133 ANSWER 534 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Studies of cholesterol biosynthesis. II. Distribution of **acetate** carbon in the ring structure
SO Biochemical Journal (1953), 54, 597-601
CODEN: BIJOAK; ISSN: 0264-6021
AU Cornforth, J. W.; Hunter, G. D.; Popjak, G.
AN 1953:66351 HCAPLUS
DN 47:66351
OREF 47:11279a-c

L133 ANSWER 535 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI The biosynthesis of **carotenoids** by *Phycomyces blakesleeana*
SO Internationale Zeitschrift fuer Vitaminforschung (1952), 23, 484-9
CODEN: IZVIAK; ISSN: 0020-9406
AU Grob, E. C.; Schopfer, W. H.; Poretti, G. G.
AN 1952:54871 HCAPLUS
DN 46:54871
OREF 46:9156h-i

L133 ANSWER 536 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Biosynthesis of **carotenoids**
SO Biochemische Zeitschrift (1952), 323, 376-81
CODEN: BIZEA2; ISSN: 0366-0753
AU Arnaki, M.; Sary, Z.
AN 1953:29064 HCAPLUS
DN 47:29064
OREF 47:4951b-d

L133 ANSWER 537 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Carotenogenesis** in *Phycomyces blakesleeana*
SO Congres International de Biochimie, Resumes des Communications (1952) 210

CODEN: 20DPAQ

AU Goodwin, T. W.; Griffiths, L. A.; Jamikorn, Malini; Willmer, J. S.
AN 1956:1924 HCAPLUS
DN 50:1924
OREF 50:436c-d

L133 ANSWER 538 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI **Syntheses** in the **carotenoid** series. XXIV. Attempts to
prepare 3,3',4,4'-bisdehydro- β - **carotene**
SO Ann. (1952), 578, 177-87
AU Inhoffen, Hans H.; Arend, Wolfgang
AN 1954:3541 HCAPLUS
DN 48:3541
OREF 48:652f-i,653a-g

L133 ANSWER 539 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI The **synthesis** of β - **carotene** by *Phycomyces*
cultured in a medium containing sodium **acetate** as the only
source of carbon
SO Experientia (1952), 8, 140
CODEN: EXPEAM; ISSN: 0014-4754
AU Shopfer, W. H.; Grob, E. C.
AN 1952:67547 HCAPLUS
DN 46:67547
OREF 46:11310c-d

L133 ANSWER 540 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Investigation of the biosynthesis of **carotenoids** by *Sarcina*
lutea
SO Folia Pharmaceutica (Istanbul) (1952), 2, 115-18
CODEN: FOPMAS; ISSN: 0428-8300
AU Arnaki, M.; Stary, Z.
AN 1953:29088 HCAPLUS
DN 47:29088
OREF 47:4955a-c

L133 ANSWER 541 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI The preparation of cyclic vinyl ethers
SO Journal of the American Chemical Society (1951), 73, 913-14
CODEN: JACSAT; ISSN: 0002-7863
AU Parham, Wm. E.; Holmquist, Howard E.
AN 1951:46987 HCAPLUS
DN 45:46987
OREF 45:7998c-g

L133 ANSWER 542 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI The mechanism of rubber formation in the guayule. III. Experiments with
isotopic carbon
SO Archives of Biochemistry and Biophysics (1951), 31, 234-47
CODEN: ABBIA4; ISSN: 0003-9861
AU Arreguin, Barbarin; Bonner, James; Wood, Betty Jean
AN 1951:31405 HCAPLUS
DN 45:31405
OREF 45:5439a-c

L133 ANSWER 543 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
TI The **production** of marked β - **carotene** by *Phycomyces*
blakesleeana
SO Experientia (1951), 7, 218-19
CODEN: EXPEAM; ISSN: 0014-4754
AU Grob, E. C.; Poretti, G. G.; von Muralt, A.; Schopfer, W. H.
AN 1952:3039 HCAPLUS
DN 46:3039
OREF 46:568a-b

L133 ANSWER 544 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Ethyl sorbate in the diene synthesis
 SO Journal of the American Chemical Society (1949), 71, 2865-8
 CODEN: JACSAT; ISSN: 0002-7863
 AU Rigg, M. Wesley; Rosenthal, Rudolph
 AN 1951:5236 HCAPLUS
 DN 45:5236
 OREF 45:892c-h

L133 ANSWER 545 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI **Synthesis** of **isoprenoid** compounds in plants
 SO Journal of Chemical Education (1949), 26, 628-31
 CODEN: JCEDA8; ISSN: 0021-9584
 AU Bonner, James
 AN 1950:17984 HCAPLUS
 DN 44:17984
 OREF 44:3576b-d

L133 ANSWER 546 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI **Syntheses** in the **carotenoid** series. II.
Synthesis of a hydrocarbon, C₃₀H₄₂
 SO Ann. (1948), 561, 26-31
 AU Inhoffen, Hans H.; Pommer, Horst; Bohlmann, Ferdinand
 AN 1949:13106 HCAPLUS
 DN 43:13106
 OREF 43:2588d-i

L133 ANSWER 547 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Effect of various salts on the **synthesis** of ascorbic acid and
carotene in cress seedlings
 SO Biochemical Journal (1947), 41, 197-205
 CODEN: BIJOAK; ISSN: 0264-6021
 AU Mapson, L. W.; Cruickshank, E. M.
 AN 1948:2878 HCAPLUS
 DN 42:2878
 OREF 42:644h-i,645a

L133 ANSWER 548 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI **Synthesis** of aliphatic terpene alcohols from **isoprene**
 SO Ber. (1943), 76B, 831-46
 AU Lennartz, Theo.
 AN 1944:11772 HCAPLUS
 DN 38:11772
 OREF 38:1737g-i,1738a-i,1739a

L133 ANSWER 549 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI **Syntheses** in the **carotenoid** series. V. Preparation of
 higher aliphatic polyenealdehydes
 SO Ann. (1941), 547, 285-02
 AU Schmitt, J.; Obermeit, A.
 AN 1942:41253 HCAPLUS
 DN 36:41253
 OREF 36:6523g-h

L133 ANSWER 550 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI **Syntheses** in the **carotenoid** series. IV. Preparation of
 ω-phenyl-and ω-furylpolyenealdehydes
 SO Ann. (1941), 547, 270-84
 AU Schmitt, J.
 AN 1942:41252 HCAPLUS
 DN 36:41252
 OREF 36:6523e-g

L133 ANSWER 551 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI **Syntheses** in the **carotenoid** series. III. Preparation
 of a methyl homolog of dehydro- β -cyclocitral
 SO Ann. (1941), 547, 256-70
 AU Schmitt, J.
 AN 1942:41251 HCAPLUS
 DN 36:41251
 OREF 36:6522i,6523a-e

L133 ANSWER 552 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI **Synthesis** of terpenes from **isoprene**
 SO Ann. (1932), 496, 52-77
 AU Wagner-Jauregg, T.
 AN 1932:41789 HCAPLUS
 DN 26:41789
 OREF 26:4320h-i,4321a-b

L133 ANSWER 553 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Synthetic experiments with ethinylcarbinols. I. Transformation of
 3-methyl-butanol into 3-methylbutenin, 3-methylbutanolone and its
 condensation products
 SO Ber. (1922), 55B, 2903-23
 AU Scheibler, Helmut; Fischer, Artur
 AN 1923:8065 HCAPLUS
 DN 17:8065
 OREF 17:1419b-i,1420a-b

L133 ANSWER 554 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI **Making isoprene**
 IN Webel, F.
 AN 1914:19261 HCAPLUS
 DN 8:19261
 OREF 8:2816d-e

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 1098859		19140602	US	

L133 ANSWER 555 OF 558 NTIS COPYRIGHT 2004 NTIS on STN
 TI Biosynthesis of Membrane Lipids in Halobacterium Cutirubrum.
 Reprint: Biosynthesis of Membrane Lipids in Halobacterium Cutirubrum.
 NR AD-679 417/XAB; NRC-10141
 9p; 1968
 AU Kates, M.; Wassef, M. K.; Kushner, D. J.
 AN 1969(31):02662 NTIS

L133 ANSWER 556 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
 TI **Prodn of isoprene.**
 PI JP 46000161 B (197102)*

L133 ANSWER 557 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
 TI Quat phosphonium salts as intermediates for **carotenoids**.
 PI GB 1102064 A (196800)*
 NL 6704300 A (196801)
 US 3517067 A (197025)

L133 ANSWER 558 OF 558 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
 TI 3-methyl-but-2-en-1-ol or 3-methyl-but-2-en-1-yl.
 PI BE 725088 A (196800)*
 NL 6817562 A (196801)
 CA 833592 A (197006)
 FR 1594968 A (197042)
 GB 1239434 A (197127)
 DE 1643709 B (197128)
 US 3655735 A (197218)

CH 525173	A	(197237)
JP 48007408	B	(197310)

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=> d ab 34,45,49,59,71,78,80,131,216

L133 ANSWER 34 OF 558 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 AB The invention is concerned with a multi-stage process for **making**
 an oxidative metabolite of the **carotenoid lycopene**,
 2,6-cyclolycopene-1,5-diol having the formula ##STR1## In this process
 alpha-terpinyl **acetate** is oxidatively dihydroxylated to a
 cyclohexanediol (IV), the cyclohexanediol (IV) is oxidatively cleaved to a
 ketoaldehyde (V), the ketoaldehyde (V) is subjected to an intramolecular
 aldol condensation to give a cyclopentanol (VI), the cyclopentanol (VI) is
 silylated to its silylated derivative formylcyclopentane (VII), the
 formylcyclopentane (VII) is subjected to a C3 -chain lengthening with
 acetone and simultaneously to a saponification for the cleavage of the
 acetyl group to give a cyclopentylbutenone (VIII), the cyclopentylbutenone
 (VIII) is reacted with vinyl magnesium bromide to give a pentadienol (IX),
 the pentadienol (IX) is converted with deprotection of the silylated
 hydroxy group into a phosphonium salt (X), this salt is subjected to a
 Wittig reaction with 2,7-dimethyl-2,4,6-octatriene-1,8-dial to give a
 tridecahexaenal (XII) and the tridecahexaenal (XII) is subjected to a
 Wittig reaction with a (3,7,11-trimethyl-dodeca-2,4,6,10-
 tetraenyl)triphenylphosphonium salt to give the desired
 2,6-cyclolycopene-1,5-diol (II). A variant of this process, also in
 accordance with the invention, comprises converting the
 cyclopentylbutenone (VIII) into the phosphonium salt (X) via two
 alternative intermediates, namely a pentadienoic acid ester (XIV) and a
 different pentadienol (XV), into the same phosphonium salt (X). Moreover,
 the invention is concerned with the novel intermediates (V), (VI), (VII),
 (VIII), (IX), (X), (XII), (XIV) as well as (XV) and the individual process
 steps which lead to these novel intermediates. 2,6-cyclolycopene-1,5-diol
 is useful in the prevention of cancer growth in human cells.

L133 ANSWER 45 OF 558 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS
RESERVED. on STN DUPLICATE 25

AB In summary the biosynthetic pathway for the formation of **isoprenoid** compounds in plants is similar to the pathway of sterol biosynthesis in animals and yeast. In plants, **isoprenoids** are **synthesized** from acetyl-CoA via mevalonate and isopentyl pyrophosphate to long-chain prenyl pyrophosphates. These compounds may then be metabolized to form various **isoprenoid** compounds. The bovine corpus luteum, which utilizes the Porter-Lincoln pathway, has been shown to metabolize **acetate** to steroids and β -**carotene**. For example, farnesyl pyrophosphate is an intermediate in the **production** of steroids and β -**carotene**. The **synthesis** of **carotenoids** continues with the condensation of two molecules of geranylgeranyl pyrophosphate to **phytoene** (C₄₀ hydrocarbon), phytofluene, and eventually to β -**carotene**. β -**Carotene** can then be metabolized to retinol. Retinol is important for the synthesis of cholesterol and the metabolism of various

steroids, such as pregnenolone and progesterone. The action of vitamin A on progesterone metabolism is important for embryonic development.

L133 ANSWER 49 OF 558 MEDLINE on STN DUPLICATE 28

AB The **inducible glnA promoter 2** of the *E. coli* glutamine synthetase gene is suitable as an expression unit for the production of recombinant proteins at low and high cell densities. It is active when the concentration of ammonium as the sole nitrogen source in the culture medium is below 1 mM. This nitrogen regulatory system was optimized by introduction of expression cassettes consisting of additional elements of the *ntr*-system. These artificial constructions result in enhanced recombinant gene expression in the production phase. Furthermore, the basic recombinant protein level during the growth phase is reduced due to a tighter promoter control. A three- to four-fold higher accumulation of chloramphenicol-acetyltransferase (as reporter protein) and of anti-EGF-receptor miniantibodies was achieved by increasing the amount of the final regulator molecule NtrC approximately 5-fold via plasmid co-expression of the *ntrC* gene. The introduction of a modified *glnA* promoter 1 inverse to **glnAp2** lowered the basic activity of **glnAp2** to about one half. It is assumed that under nitrogen excess conditions sigma 70-RNA polymerase binds at **glnAp1** and thereby prevents most of the binding of sigma 54-RNA polymerase at **glnAp2**. The optimized expression systems were successfully applied in low and high cell density cultivations. In the fed-batch phase of high cell density cultivations recombinant protein formation was induced through external nitrogen limitation under FIA-controlled concentration of glucose as carbon source.

L133 ANSWER 59 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN

AB A review with 17 refs. on the novel 1-deoxy-D-xylulose-5-phosphate (DOXP) pathway of **isopentenyl diphosphate (IPP)** formation, which is located in plastids. Higher plants and several algae groups possess a dichotomy in their **isoprenoid** biosynthesis, whereby their plastidic **isoprenoids** are **synthesized** via the novel DOXP pathway. However, their cytosolic sterols are formed via the cytosolic **acetate/mevalonate** pathway of **IPP** formation. Various mono- and diterpenes are also formed via the plastidic DOXP pathway. Apparently, the DOXP pathway is present in all oxygen-evolving photosynthetic organisms. Data indicate that the prokaryotic chloroplasts as endosymbionts conserved their former bacterial DOXP pathway of **IPP** formation which appears to be as old as the **acetate/mevalonate** pathway that has been found in other bacterial groups.

L133 ANSWER 71 OF 558 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 38

AB Response surface methodology was used to examine the effects of five components of the medium on **astaxanthin** content and **astaxanthin production** of *Haematococcus pluvialis* in batch culture based on the central composite rotatable design. The medium components considered included sodium **acetate**, potassium nitrate, major elements, trace elements and vitamins. Within the range of the concentrations tested, all the medium components, except the vitamins exhibited significant effects on the **astaxanthin** content and **astaxanthin production**. The optimal nutrient concentrations for **astaxanthin** content (mg g⁻¹ dry cells) were 1.64 g litre⁻¹ sodium **acetate**, 0.03 g litre⁻¹ potassium nitrate, 40 ml litre⁻¹ of the major element stock solution and 0.14 ml litre⁻¹ of the trace element stock solution. The optimal nutrient concentrations for **astaxanthin production** (mg litre⁻¹) were similar to those for the **astaxanthin** content (mg g⁻¹ dry cells); the higher concentrations of sodium **acetate** and the major element stock solution plus a lower concentration of potassium nitrate could significantly enhance the **astaxanthin**

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- L133 ANSWER 78 OF 558 MEDLINE on STN DUPLICATE 41
AB Labeling experiments using [1-13C]**acetate** or [1-13C]glucose were performed with opportunistic pathogenic bacteria, with innocuous bacteria related to pathogenic species or with phytopathogenic species. The labeling pattern was determined in the **isoprenic** moiety of ubiquinone or menaquinone derivatives. These experiments showed that Acinetobacter, Citrobacter, Erwinia, Pseudomonas, Burkholderia, Ralstonia and Mycobacterium **synthesize** their **isoprenoids** via the mevalonate-independent glyceraldehyde 3-phosphate/pyruvate route. Enzymes of this novel bacterial metabolic route, which is apparently absent in vertebrates and man, therefore represent potential targets for a novel type of antibacterial drugs.
- L133 ANSWER 80 OF 558 HCAPLUS COPYRIGHT 2004 ACS on STN
AB Factors affecting manufacture of **carotenoids** with photosynthetic Rhodospseudomonas sp. R-41. The yield of **carotenoid** was increased from 23.8 mg/g dry cell to 57.3 mg/g dry cell under the optimal conditions: **acetate** as C source, Na glutamate N source, yeast exts. growth factors, Mg²⁺ 4 mg/L, Fe³⁺ 2 mg/L, 1500 lx and incubation at 30°, micro-aerobic for 120 h.
- L133 ANSWER 131 OF 558 MEDLINE on STN DUPLICATE 68
AB The use of a modified Escherichia coli **glnAP2** promoter results in the formation of both homologous and heterologous, cytoplasmic and periplasmic recombinant proteins in a nitrogen concentration dependent manner. As in the E. coli nitrogen regulatory system, **glnAP2** controlled gene expression is induced when ammonium concentration in the growth medium is below 1 mM (nitrogen limitation), otherwise only extremely low expression of recombinant genes is observed. Both high cell density cultivations (HCDC) and low cell density cultivations (LCDC) gave similar results for inducibility and formation of the following recombinant proteins: chloramphenicol-acetyltransferase, phosphorylcholine binding mini-antibodies (scFv-dhlx of McPC603) and K1-streptokinase. Recombinant proteins were formed in quantities of about 2-3% of total cellular protein. At low cell densities, slightly higher quantities resulted under partial nitrogen limitations than under total nitrogen limitation. In contrast, high cell density cultivations resulted in lower product concentrations at partial nitrogen limitation compared with total nitrogen limitation. These lowered product concentrations were probably due to the very high amounts of K⁺ or Na⁺ ions which accumulated during pH-regulation, thereby disturbing growth. HCDC under partial nitrogen limitation decreased proteolysis of recombinant proteins, therefore reduced amounts of proteases are considered to be responsible.
- L133 ANSWER 216 OF 558 MEDLINE on STN DUPLICATE 109
AB Transcription of the Ntr regulon is controlled by the two-component system consisting of the response regulator NRI (NtrC) and the kinase/phosphatase NRII (NtrB), which both phosphorylates and dephosphorylates NRI. Even though in vitro transcription from nitrogen-**regulated promoters** requires phosphorylated NRI, NRII-independent **activation** of NRI also occurs in vivo. We show here that this activation likely involves **acetyl phosphate**; it is eliminated by mutations that reduce synthesis of **acetyl phosphate** and is elevated by a mutation expected to cause accumulation of **acetyl phosphate**. With purified components, we investigated the mechanism by which **acetyl phosphate** stimulates glutamine synthetase synthesis. **Acetyl phosphate**, carbamyl phosphate, and phosphoramidate but not ATP or phosphoenolpyruvate acted as substrates for the autophosphorylation of NRI in vitro. Phosphorylated NRI produced by this mechanism exhibited the properties associated with NRI phosphorylated by NRII, including the activated ATPase activity of the central domain of

NRI and the ability to **activate** transcription from the nitrogen-
regulated glutamine synthetase **glnAp2 promoter**

=> log y

COST IN U.S. DOLLARS

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